

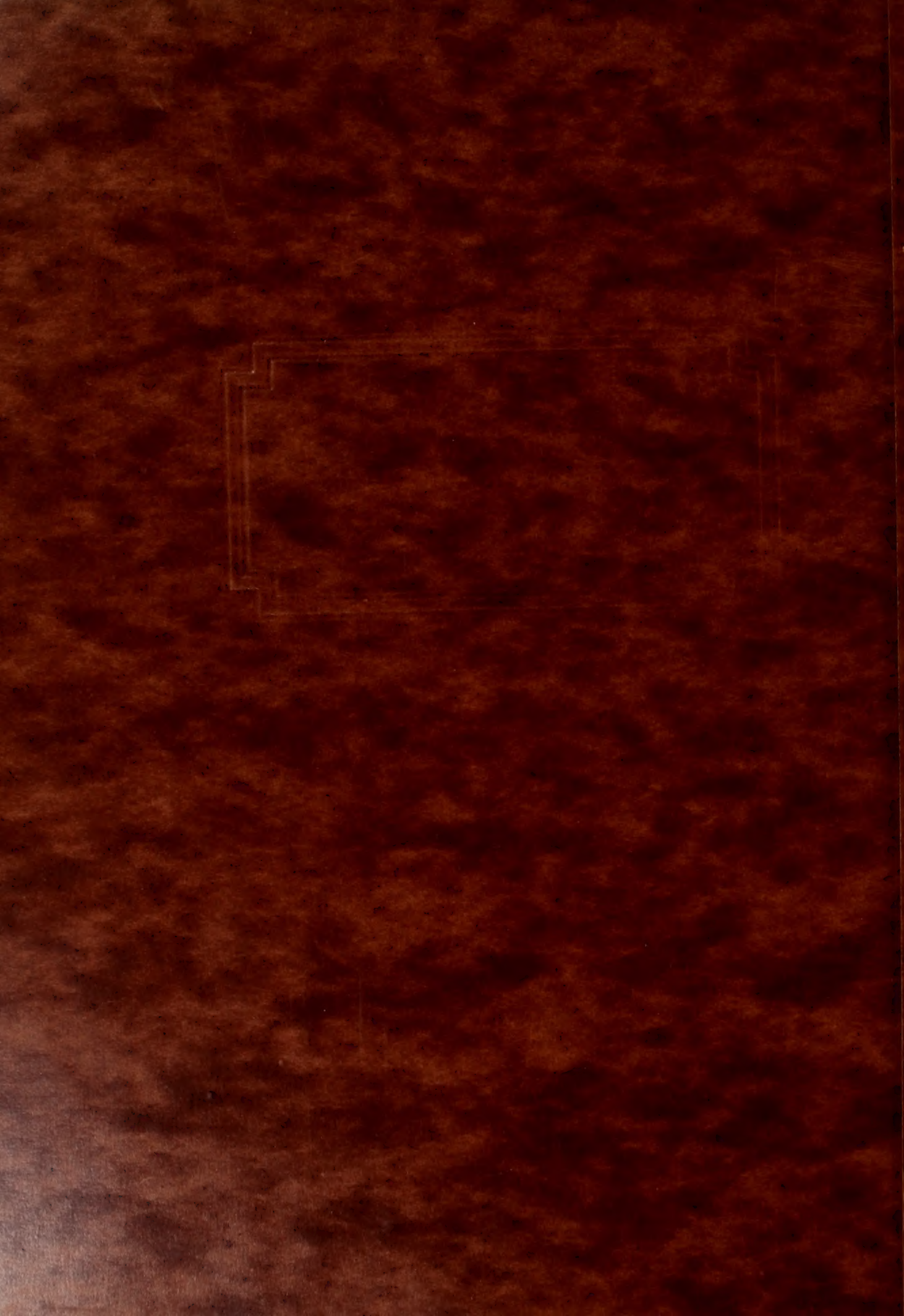
A MASTER LIST
OF READING MATERIALS
FOR
ENRICHING COURSES IN MATHEMATICS

A.M

1947

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BOSTON UNIVERSITY

GRADUATE SCHOOL

Master Paper

A MASTER LIST OF READING MATERIALS FOR
ENRICHING COURSES IN MATHEMATICS

Submitted by

Anna May Powers

(B.A., Boston College 1943)

In partial fulfillment of requirements
for the degree of Master of Arts

1947

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CONTENTS

Chapter

Page

I. Problem and Method Used

II. Master List by Author with Annotations

Approved
by

First Reader.....*Roy C. Billett*.....
Professor of Education

Second Reader.....*J. Kendall*.....
Professor of Education

MA 7A91

10

Approved
by

..... First Reader.....
..... Professor of Education.....
..... Second Reader.....
..... Professor of Education.....

CHAPTER I

PROBLEM AND METHOD USED

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The problem.-- It was the purpose of the writer to pre-

pare a list of recreational reading material that may be used

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in whole or in part, to enrich courses in mathematics at the

I. Problem and Method Used	1
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elementary-school, secondary-school, and college level.

II. Master List by Author with Annotations	11
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The research.-- Four hundred and seventy-five post cards

were sent to book publishers, colleges, libraries, state

boards of education, and universities throughout the United

States and Canada. The following inquiry was sent:

Dear Sir or (Librarian,)

Can you suggest a book or list of books for recreational reading that may be used in whole or in part, to enrich a mathematical background, and would be suitable for use in grades one through college.

Please send me any suggestions at your earliest convenience stating source for grade selection.

Thank you,

The response.-- Two hundred and ten responses to the inquiry were received. Many were negative; but from sixty sources, mostly colleges, libraries, normal schools and universities, compilations were sent ranging from one suggestion to twenty-five.

In gratitude for their interest and assistance, a letter

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CHAPTER I

PROBLEM AND METHOD USED

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In gratitude for their interest and assistance, a letter

was sent to each contributor with the added statement that their name would appear in the bibliography.

The sources.-- Some suggested lists of books, others gave valuable suggestions as to sources. During this study the writer consulted the following sources. At the same time the lists were checked for accuracy and further information.

1. Achievements of Civilization Series
American Council on Education
744 Jackson Place, Washington, D. C.
2. Bates Hall, Boston Public Library
3. Books for Boys and Girls
Lillian H. Smith
The Riverside Press, Toronto, 1940
4. Children's Catalog
Compiled by Siri Andrews
H. W. Wilson Co., New York, 1941
5. Children's Room, Boston Public Library
6. Eighteenth Yearbook, National Council of Teachers of Mathematics
"Multisensory Aids in the Teaching of Mathematics"
Teachers College, Columbia, New York, 1945
7. Enriched Teaching of Mathematics in Junior and Senior High School
Maxie Nave Woodring and Vera Sanford
Bureau of Publications
Teachers College, Columbia University, New York, 1938
8. Fifteenth Yearbook, National Council of Teachers of Mathematics
"Mathematical Books and Periodicals for the High School Library"
Teachers College, Columbia New York, 1940
9. Five Years of Children's Books
Bertha E. Mahoney and Elinor Whitney
Doubleday, Doran, and Co. Inc.
Garden City, New York, 1936

THE UNIVERSITY OF CHICAGO PRESS

CHICAGO, ILLINOIS 60607

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10. Gateways to Readable Books
Ruth Strang, Alice Checkovitz, Christine Gilbert,
Margaret Scoggin,
H. W. Wilson Co., New York, 1914
11. Graded List of Children's Books
Compiled by Nora Beust
American Library Association, Chicago, 1930
12. Mathematics, Queen of the Sciences
Frieda M. Heller
H. W. Wilson Co., New York, 1938
13. Mathematics Teacher, Volume 15, May 1922
"A List of Reference Books and Magazines for Teachers of
Mathematics" (Pp. 303-307)
14. Mathematics Teacher, Volume 17, October 1924
"Mathematics Club Programs" (Pp. 303-307)
Mary Derby, Myrtle Duncan
15. Mathematics Teacher, Volume 18, December 1925
"A Brief List of Mathematics Books Suitable for Libraries
in High and Normal Schools" (Pp. 476-489)
D. E. Smith, C. P. Upton, W. D. Reeve,
W. E. Breckenridge, J. Ginsburg
16. Mathematics Teacher, Volume 19, November 1926
"Books That Make Mathematics Interesting" (Pp. 419-428)
F. P. Sharwell
17. Mathematics Teacher, Volume 24, December 1931
"Sources of Program Material and Some Types of Program
Work Which Might Be Undertaken by a High School Mathe-
matics Club" (Pp. 492-502)
18. Mathematics Teacher, Volume 32, February 1939
"Enrichment Materials for First Year Algebra" (Pp. 68-77)
David W. Starr
19. Realms of Gold
Bertha E. Mahoney and Elinor Whitney
Doubleday, Doran, and Co. Inc.
Garden City, New York, 1929
20. Standard Catalog for Public Libraries
Edited by Isabel S. Munro
Assisted by Ruth Jervis
H. W. Wilson Co., New York, 1942

21. Standard Catalog for Public Libraries
 Edited by Dorothy E. Cook, Isabel S. Monro,
 and Dorothy H. West
 H. W. Wilson Co., New York, 1938
22. School Science and Mathematics, Volume 30, June 1930
 "The Mathematics Library and the Recreational Program"
 (Pp. 626-634)
 S. Helen Taylor
23. Subject Index to Books for Intermediate Grades
 Compiled by Eloise Rue
 American Library Association, Chicago, 1940
24. Subject Index to Books for Intermediate Grades Supplement
 Compiled by Eloise Rue
 American Library Association, Chicago, 1943
25. Subject Index to Books for Primary Grades
 Compiled by Eloise Rue
 American Library Association, Chicago, 1943
26. Subject Index to Books for Primary Grades Supplement
 Compiled by Eloise Rue
 American Library Association, Chicago, 1946
27. Subject Index to Readers
 Compiled by Eloise Rue
 American Library Association, Chicago, 1938
28. United States Catalog or Cumulative Book Index
 Edited by Mary Burnham
 H. W. Wilson Co., New York
29. What Books for Children
 Josette Frank
 Doubleday, Doran, and Co., New York, 1941

For materials and suggestions to sources to materials many
 thanks are due to:

30. Adams State Teachers College, So. Colorado, Lenore M.
 Brownlee
31. Adriance Memorial Library, Poughkeepsie, N. Y.
 Ethel L. Lumb
 Miss Traver

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
540 EAST 58TH STREET
CHICAGO, ILL. 60637

TO: DR. J. H. HARRIS
FROM: DR. J. H. HARRIS
SUBJECT: [illegible]

RE: [illegible]

DATE: [illegible]

BY: [illegible]

FOR: [illegible]

BY: [illegible]

FOR: [illegible]

BY: [illegible]

FOR: [illegible]

BY: [illegible]

FOR: [illegible]

32. Ball State Teachers College, Muncie, Indiana:
Mary L. Pearson
33. Binghamton Public Library, N. Y.: Pauline E. Goemba
34. Blackstone College For Girls, Ewing C. Baskette
35. Bridgeport Public Library, Conn.: J. Ethel Wooster
36. Brooklyn Public Library, N. Y.: Ruth M. Stewart
37. Buffalo State Teachers College, N. Y.: Rea J. Steele
Frances G. Hepinstall, Pauline Ebermann
38. Central Missouri State Teachers College: Olive I. Brown
39. Chattanooga Public Library, Tennessee: E. Sussdorff
40. Cincinnati Public Library, Ohio: Julia F. Carter
41. Cleveland Public Library, Ohio: Margaret M. Clark
42. East Orange Free Library, N. J.: Margaretta Smith
43. Eau Claire State Teachers College, Wisconsin:
Erna Buckholz
44. Free Public Library, N. J.: Nellie K. Fagan
45. French's Plays: Sam French
46. Fresno County Free Library, California: Helen Bird
47. Gary Public Library, Indiana: Sara Fenwick
48. Genesee State Teachers College, N. Y.: Edna L. Lent
49. Indiana University, Bloomington: E. L. Craig
50. International Textbook Co.: C. L. Messmore
51. Iowa State Teachers College, Cedar Falls: C. E. Campbell
52. Kalamazoo Public Library, Michigan: Alice White
53. Kern County Free Library, Bakersfield, California:
Irene Branham
54. LaCrosse State Teachers College, Wisconsin: Florence S. Wing

55. Lincoln City Library, Nebraska: Harriet Helms
56. McGhee Library, Tennessee: Margaret Taylor
57. Massachusetts Department of Education, Division of Libraries: Elsie M. McCabe
58. Michigan State Library, Lansing: D. Hansen
59. Michigan State Normal College: Margaret M. Robinson
60. Minneapolis Public Library: Isabel McLaughlin
61. Mt. Vernon Public Library, N. Y.: Georgina Jeannerett
62. Newark Public Library, N. J.: Mrs. H. J. Boerum
63. North Carolina College for Negroes: Mrs. A. M. Johnson
64. Oak Park Public Library, Illinois: M. A. Armstrong
65. Orange Public Library, N. J.: M. Gladys Quinby
66. Orange State Library, Salem, Oregon: Agnes Shields
Mrs. Barker
67. Princeton University: Margaret C. Shields
68. Pullman State College, Washington, D. C.: Katherine O. Roberts
69. Quincy Free Public Library, Illinois: Katherine O. Roberts
70. Sacramento Professional Library: Jewel Gardiner
71. St. Louis Public Library, Missouri, Myra Simms
72. St. Paul Public Library, Minnesota: Perrie Jones
73. San Mateo County Free Library: Caroline M. Coffinberry
74. Seattle Public Library, California: Ruth E. Hewitt
75. Silas Bronson Library, Conn.: I. C. Lovering
76. Southern Illinois Normal University: J. R. Mayor
77. Texas State College for Women: Mary D. Taylor
78. Thomas Crane Public Library, Quincy, Mass.: Rachael Bodine

79. University of Cincinnati: Edward A. Henry
80. University of Michigan Extension Library: Edith Thomas
81. University of Michigan General Library, Ann Arbor:
Sarita I. Davis
82. University of Missouri: Mrs. Caroline Woods
83. University of Nebraska: Clara L. Craig
84. University of the State of New York Library:
Mrs. Fannie T. Goldstein
85. University of Virginia: G. T. Whyburn
86. Washington, D. C. Public Library: Maxine LaBounty
87. Whitewater State Teachers College, Wisconsin:
W. C. Cannon, C. E. Flanagan, Edith Knilians
88. Winnipeg Department of Education, Manitoba:
Mary T. Lewis
89. Wisconsin State Teachers College: Florence Walde

The method.-- A variety of sources of expert opinion regarding recreational reading books that correlate mathematics is represented in this list. A card index was made listing each book separately and arranged alphabetically by author. In the upper right hand corner was placed the grade level of the book. In no instance has this grade level been selected by chance but rather taken from one or more reliable sources found during research or in reply to the inquiry. The source for choice of selection of the book was placed at the bottom of the card. In many cases such a large number of sources mentioned the book that it required both sides of the card to complete the list. In a few instances more than one card was

required. The sources for selection is shown in the bibliography by the use of Arabic numbers which correspond to the above list. The recommended grade level is stated by Roman Numerals. Illustration:

Bell, Eric Temple, Men of Mathematics

New York: Simon 1937 \$5.00

H.G.L.: H.S. and college

Source: 7,8,12,29,28,31,36,37,46,72,85,89

The biography and achievements of great mathematicians from Zeno to Poincaré and Cantor are reviewed. It is interesting in its style and a valuable reference for the development of modern mathematics.

The value of research.-- To those of us who are willing to give recreational technique a well planned tryout the following bibliography of carefully selected books with necessary data from mere beginners to college level may be found of value.

This recreational reading list correlates with mathematics, architecture, art, astronomy, banking, building, carpentry, chess, cooking, engineering, handicraft, measuring, model making, surveying and other fields of endeavor.

The close contact into which one student is brought with another in this class library activity tends to soften their manners, promote fair and just dealings with one another, helps to develop the shy, retiring, awkward pupils, into spirited typical young Americans, unconsciously, if you will, yet helps them to become members not only of the business world but in every walk of life.

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In this bibliography variations are bound to occur due to different approaches to the subject. However those interested in a recreational technique in mathematics may use this list as a guide.

It is hoped that in the future mimeographed copies of this list will be available to all interested in obtaining good recreational material that correlates mathematics.

The total result of this research is a list of over one thousand books to meet the needs and interests of students from grade one through college.

Numerous other works are eminently worthy of having a place on such a list but limitations of space and time have made it imperative to omit some deserving contributions.

From the following letter^{1/} we learn that it is not necessary to buy all the books we wish to have on our school library shelf but rather that the local librarian is willing to cooperate with us by lending us books for a reasonable length of time.

Quote:

The Parlin Library Children's Room reminds you once again that we loan collections of books for classroom use. They are an invaluable help in supplementing your classroom work and also in helping to establish children's reading taste and good reading habits. A collection may be kept for a period of two months. Let us know and we will make the selections for you.

Children's Librarian

^{1/} This letter was sent to the writer from Miss Jean Osmond, Children's Librarian at the Parlin Memorial Library in Everett, Massachusetts.

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF THE HISTORY OF ARTS

RECEIVED

1950

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF THE HISTORY OF ARTS

RECEIVED

1950

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF THE HISTORY OF ARTS

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THE UNIVERSITY OF CHICAGO

DEPARTMENT OF THE HISTORY OF ARTS

LIST OF SYMBOLS

Arabic numbers-----source for selection of book
C.-----college level
H.-----handcraft
H.S.-----high school level
M.-----music
P-----picture material important
FP-----preprimer
P.S.-----picture stories
R.G.L.-----recommended grade level
Roman Numerals-----grade difficulty
S.C.-----story collections
T-----teachers' reference
V.P.-----various pages

CHAPTER II

MASTER LIST ARRANGED BY AUTHOR

Abbott, Edwin, Flatland: A Romance of Many Dimensions

Boston: Little 1927 \$1.25

R.G.L.: n.s. and C.

Source: 12,15,16,20,22,31,37,41,44,48,49,67,76,89

This interesting speculation is about existence as it would be in a world consisting of a line and a plane. It serves as an introduction to the fourth dimension.

Abraham, H. M., Diversions and Pastimes

New York: Dutton 1935 \$1.75

R.G.L.: IX

Source: 6,8,18

Games with paper including dissections, paper compasses, five point star, crystals, and models are explained.

----., Winter Nights Entertainment

New York: Dutton 1933 \$1.75

R.G.L.: V - IX

Source: 6,18,41

Card tricks, paper folding, coin tricks, problems, illustrations, and diagrams are shown.

Adams, John D., Carpentry for Beginners: Things to Make

New York: Dodd 1917 \$1.50

R.G.L.: VI - VIII

Source: 19

Full directions are given for beginners to make furniture, flower boxes, bird houses, etc.

----., When Mother Lets Us Carpenter

New York: Dodd 1917 \$1.00

R.G.L.: V - VII

Source: 3

Detailed instructions and good working plans are given for making simple household articles.

Aitchison, Alison E. and Uttley, Marguerite, Across Seven Seas to Seven Continents

New York: Bobbs 1937 \$.84

R.G.L.: IV - VI

Source: 23

Pp. 209-13 trading posts

-----., North America by Plane and Train

New York: Bobbs \$.95

R.G.L.: V - VII

Source: 23

Pp. 376-8 markets in Mexico

Aker, Homer Ferris, Yesterday the Foundation of Today

San Francisco: Wagner 1933 \$1.32

R.G.L.: VI - VIII

Source: 23, 35, 69

Pp. 244-251 calendars, 251-57 clocks, 360-8 money,
235-43 numbers, 239-43 weights and measures

Alekhin, A. A., World's Chess Championship

Philadelphia: McKay 1939 \$2.00

R.G.L.: H.S. and C.

Source: 28

An official account of games is given with annotations.

Allen, Nellie Burnham, Cotton and Other Useful Fibres

New York: Ginn 1929 \$.96

R.G.L.: V - VII

Source: 23

Pp. 19, 45, 47, 191, 195, 197 graphs

Allen, E. L., Model Airplanes

New York: Stokes 1937 \$3.50

R.G.L.: VI - IX

Source: 11

Numerous diagrams, scale reduction plans, and actual size working patterns are shown.

Alliston, Norman, Mathematical Snack Bar

Cambridge: Heffer 1936 \$3.00

R.G.L.: H.S. and C.

Source: 76

Students of mathematics interested in research will delight and ponder over this original and "home made treatment" of classical problems presented in an ingenious style.

Allman, G. T., Greek Geometry from Thales to Euclid

New York: Longman 1925 \$5.00

R.G.L.: H.S. and C.

Source: 15

A very scholarly treatment of the formative period of elementary geometry is presented.

Ambler, Mary B., Man and his Riches

Chicago: Rollett 1934 \$.88

R.G.L.: V - VII

Source: 23

History of the United States

1776 - 1789

1789 - 1800

1800 - 1820

1820 - 1840

1840 - 1860

1860 - 1880

1880 - 1900

1900 - 1920

1920 - 1940

1940 - 1960

1960 - 1980

1980 - 2000

2000 - 2020

2020 - Present

Present - Future

Future - End

Pp. 78-90 banks and banking, 58-67 business, 22-46 money,
91-112 money, 110-112 taxation

Anderson, B., The Value of Money

New York: Macmillan 1917 \$3.50

R.G.L.: H.S.

Source: 7

Diagrams and tables are explained.

Anderson, Raymond, Romping Through Mathematics

New York: Knopf 1947 \$3.00

R.G.L.: V - II

Source: Publisher

This is a very comprehensive volume which covers everything from simple arithmetic through integral calculus.

Andress, James Mace and Goldberger, Isidore Harry, Broadcasting Health

New York: Ginn 1933 \$.84

R.G.L.: V - VII

Source: 23

Pp. 25,91,247 graphs

----., Health School on Wheels

New York: Ginn 1933 \$.80

R.G.L.: VI - VII

Source: 23

Pp. 42,316,370 graphs

----., and others, Building Good Health

New York: Ginn 1939 \$.84

R.G.L.: VI - VIII

Source: 23

Pp. 19 graphs

----., and others, Growing Big and Strong

New York: Ginn 1939 \$.92

R.G.L.: III

Source: 25

Pp. 225-230 stores, 241-6 grocery stores

----., and others, Health Parade

New York: Ginn 1945 \$.88

R.G.L.: II - III

Source: 25,26

Pp. 29-32 grocery stores, 44-50 thermometers

2. The second part outlines the procedures for handling discrepancies. If a discrepancy is identified, it should be investigated immediately. The responsible party must provide a clear explanation and supporting documentation. Once the issue is resolved, the records should be updated accordingly.

3. The third part covers the process for closing the fiscal year. All accounts should be reconciled, and any outstanding items should be identified. A final review should be conducted to ensure that all data is accurate and complete before the year-end report is finalized.

4. The fourth part discusses the importance of regular communication and reporting. Management should receive regular updates on the financial performance of the organization. This allows them to make informed decisions and take corrective action if needed.

5. The fifth part addresses the security of financial data. All records should be stored securely, both physically and electronically. Access should be restricted to authorized personnel only, and appropriate backup procedures should be in place to prevent data loss.

6. The sixth part covers the training and development of staff. All personnel involved in financial management should receive regular training to stay up-to-date on best practices and regulatory requirements. This helps to ensure a high level of competence and accuracy in all financial activities.

7. The seventh part discusses the importance of maintaining a clear and concise record of all decisions and actions. This helps to avoid confusion and ensures that everyone is on the same page. It also provides a valuable reference for future planning and analysis.

8. The eighth part covers the process for handling changes to the financial system. Any proposed changes should be thoroughly evaluated and approved by management before implementation. This helps to ensure that changes are made in a controlled and organized manner.

9. The ninth part discusses the importance of maintaining a strong relationship with external auditors. Regular communication and cooperation are essential for a successful audit. This helps to ensure that the organization's financial records are accurate and reliable.

10. The tenth part covers the overall goal of the financial management process: to provide accurate and timely information to management and stakeholders. This information is used to make informed decisions and ensure the long-term success of the organization.

Andrews, Frank Emerson, An Excursion in Numbers

Boston: Atlantic Monthly 1934 Consult library files

R.G.L.: IX

Source: 18

Here is a review of the origin of our decimal system, Roman Numerals and calculus. It tells the disadvantages of the decimal system, the advantages of a duodecimal system and suggests monosyllabic words for ten and eleven.

-----, New Numbers

New York: Harcourt 1935 \$2.00

R.G.L.: H.S.

Source: 8,76

An idea is presented on which mathematicians and philosophers agree. It states how a duodecimal base would simplify mathematics.

Andrews, W. S., Magic Squares and Cubes

LaSalle: Open Court 1907 \$1.50

R.G.L.: H.S.

Source: 8,15,18

This is one of the most satisfactory treatments of this interesting subject in English.

Anning, Norman, Socrates Teaches Mathematics, a play

Menasha, Wisconsin: School Science and Mathematics, Volume 22, June 1923 Consult library files

R.G.L.: H.S.

Source: 18

This play shows the development of $(x-y)^3$ and $(x-y)^3$ and uses blocks to illustrate the various terms.

Archibald, Raymond C., Euclid's Book on Division of Figures

Cambridge: University Press 1925 \$1.75

R.G.L.: H.S. and C.

Source: 15

One of the best contributions of the history of geometry made by American scholars.

-----, Mathematics and Music

New York: American Mathematics Monthly 1924 \$.25

R.G.L.: IX

Source: 16,18

This report tells why a knowledge of mathematics is necessary to be a success in music.

-----, Outline of the History of Mathematics

Oberlin: Mathematics Association of America 1936 \$.75

R.G.L.: H.S.

Source: 7,18

[Faint, illegible text spanning the page, likely bleed-through from the reverse side. The text appears to be organized into paragraphs and possibly a list or table structure.]

Part I tells of the history of mathematics before 1600 A.D.
 Part II tells of the history of mathematics after 1600 A.D.
 It is a helpful outline containing a bibliography and valuable for mathematics clubs.

Arnold, Joseph Irvin, Cooperative Citizenship
 New York: Row 1933 \$1.60
 R.G.L.: VIII
 Source: 4
 Pp. 382-393 banks and banking

A Society of Gentlemen, The Mathematician
 London: Wilcox 1751 Consult library files
 R.G.L.: H.S. and C.
 Source: 2

Many curious dissertations are given on the rise, progress, and improvement of geometry.

Atwood, Wallace Walter, and Thomas, Helen Goss, Neighborhood Stories
 New York: Ginn 1935 \$.84
 R.G.L.: III - V
 Source: 23
 Pp. 62-65 carpentry

Bacmeister, Rhoda (Mrs.), Stories to Begin On, poetry
 New York: Dutton 1940 \$1.50
 R.G.L.: T
 Source: 25
 Pp. 29 clocks, 31 grocery store, 35 shopping

Baker, Edna Dean and Baker, Clara Bell, Sailing Tub and Other Stories
 New York: Bobbs 1938 \$.72
 R.G.L.: 2 - 3
 Source: 27
 Pp. 161 butcher stores, 162-171 toy stores

Baker, Robert Horace, When the Stars Come Out
 New York: Viking 1934 \$2.50
 R.G.L.: IV - VI
 Source: 23
 Pp. 47-51 clocks and watches

Bakewell, Paul Jr., Past and Present Facts About Money in the United States
 New York: MacMillan 1936 \$2.00
 R.G.L.: H.S. and C.
 Source: 7
 The subject of money is treated from the time of Alexander Hamilton to 1935.

The first of these is the fact that the
the second is the fact that the
the third is the fact that the

the fourth is the fact that the
the fifth is the fact that the

the sixth is the fact that the

the seventh is the fact that the
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the seventeenth is the fact that the

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the nineteenth is the fact that the

the twentieth is the fact that the
the twenty-first is the fact that the

the twenty-second is the fact that the

the twenty-third is the fact that the

the twenty-fourth is the fact that the

the twenty-fifth is the fact that the

the twenty-sixth is the fact that the

the twenty-seventh is the fact that the

the twenty-eighth is the fact that the

Bakst, Aaron, Mathematics: Its Magic and Mastery

New York: Van Nostrand 1941 \$3.95

R.G.L.: H.S.

Source: 20,38,41,57,76,83

A book of mathematical amusements which is designed to make mathematics interesting.

Bailey, Carolyn Sherwin, From Moccasins to Wings

Springfield, Mass.: Milton 1938 \$2.00

R.G.L.: VI - VIII

Source: 23

Pp. 164 business discussion

Ball, Walter William Rouse, An Introduction to String Figures

Cambridge, Eng.: Heffer 1929 \$.60

R.G.L.: H.S.

Source: 14

Novel tricks with strings are explained.

----., A Short Account of the History of Mathematics

New York: Macmillan 1912 \$4.00

R.G.L.: IX

Source: 7,12,18,54

Lives and discoveries of foremost mathematicians are discussed.

----., Mathematical Recreations and Essays

New York: Macmillan 1928 \$3.50

R.G.L.: H. S.

Source: 8,12,15,20,22,30,37,44,54,57,72,76,79,81,89

Arithmetical, geometrical, mechanical, chess board recreations, magic squares, problems in cryptograms and ciphers are treated.

----., Primer of the History of Mathematics

New York: Macmillan 1914 \$1.00

R.G.L.: IX

Source: 7,12,18,54

A short elementary treatment of the subject is given.

Bancroft, Jessie Hubbell, Games (Sundial)

New York: Macmillan 1937 \$3.00

R.G.L.: T

Source: 23

Pp. 240 clocks and watches

Barker, Eugene Campbell and others, Story of Colonial Times

New York: Row 1937 \$1.28

R.G.L.: VI - VIII

Source: 23

P Pp. 363-372 taxation

Barnes, Franklin, Man and his Records

Chicago: Follett 1936 \$.88

R.G.L.: 5 - 7

Source: 23,35,42,75

Pp. 100-102 numbers, 30-33 wampum

Barto, A., Count to Ten With The Little Red Hen

New York: Artists and Writers 1940 \$.10

R.G.L.: I

Source: 80

Here we have a combination of nursery rhymes and jingles.

Bartoo, Grover Cleveland, Home and Job Mathematics

St. Louis: Webster 1944 \$1.60

R.G.L.: H.S.

Source: 2

The reader is helped to see the way of economic well being which includes earning, spending, saving, borrowing, lending, insurance, taxes, budgets, thrift, and wholesome living.

Bass, Florence, Stories of Pioneer Life

Boston: Heath 1928 \$.84

R.G.L.: III

Source: 27

Pp. 138-140 money

Baykov, Alexander, The Development of Soviet Economic Policy

Cambridge: University Press 1946 \$6.50

R.G.L.: H.S. and C.

Source: 2

This essay on planning the U.S.S.R. is well written by Baykov.

Beard, Daniel C., The American Boys Handy Book

New York: Scribner 1925 \$3.00

R.G.L.: VII - VIII

Source: 11,19

Directions are given for making boats, kites, toys, aquariums, etc.

Beattie, John Walter, American Singer Book 2

New York: American Bk. 1944 \$2.24

R.G.L.: IV - VI

Source: 26

Pp. 81 counting songs

Beaty, John Yocum, Story Pictures of Farm Work

Chicago: Beckley 1940 \$.72

R.G.L.: I - II

Source: 25

Pp. 52-53 weights and measures

----., Story Pictures of Our Neighbors

Chicago: Beckley 1938 \$.80

R.G.L.: 2 - 3

Source: 25

Pp. 14-16 bakery, 41-43 banking, 139-143 banking, 120-124 canals, 74-81 clothing, 10-11 grocery, 166-7 numbers

----., Story Pictures of Transportation and Communication

Chicago: Beckley 1939 \$.88

R.G.L.: 3 - 5

Source: 23

Pp. 166-167 numbers, 197-206 signals

Beauchamp, Wilbur Lee, All Around Us

New York: Scott 1944 \$1.08

R.G.L.: P and I

Source: 26

Pp. 44-45 telling time, 48-59 thermometers

----., Discovering Our World, Bk. 2

New York: Scott 1938 \$.96

R.G.L.: V - VI

Source: 23

Pp. 142-151 air pressure, 156-163 time, 166-171 time

----., and others, Look and Learn

New York: Scott 1943 \$.84

R.G.L.: P and I

Source: 26

Pp. 60 flower store, 65 grocery store

----., Science Stories, Book 1

New York: Scott 1933 \$.72

R.G.L.: I - II

Source: 25

Pp. 125-128 telling time

----., Science Stories, Book 2

New York: Scott 1935 \$.80

R.G.L.: II - III

Source: 25

Pp. 29-31 thermometers, 127-130, 132-133 time

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

ON THE KINETICS OF THE REACTION OF

HYDROGEN PEROXIDE WITH

VARIOUS SUBSTANCES

BY

DR. J. H. KILPATRICK

AND

DR. R. W. BARTLETT

CHICAGO, ILL.

1934

CHICAGO

UNIVERSITY OF CHICAGO PRESS

1934

CHICAGO, ILL.

Becker, Charlotte and others, Stories for Fun

New York: Scribner 1941 \$1.75

R.G.L.: S.C.

Source: 25

Shopping stories are told about "The Old Woman and her Basket."

Bedell, Clyde, The Way of Life in a Department Store or Shoppers' Special

New York: Row 1941 \$.96

R.G.L.: H.S.

Source: Publisher

A correlation is shown in community problems, history of merchandising and sociology.

Beebe, Catherine, The Calendar

Toronto: Oxford 1940 \$1.25

R.G.L.: S.C.

Source: 25,38

The whole book is written about the calendar.

Bell, Eric Temple, (John Taine, Pseud.) Handmaiden of the Sciences

Baltimore: Williams 1937 \$2.00

R.G.L.: H.S. and C.

Source: 12,18,76

The service of mathematics to the physical sciences is stated.

----., Men of Mathematics

New York: Simon 1937 \$5.00

R.G.L.: H.S. and C.

Source: 7,8,12,20,28,31,36,37,46,72,85,89

Biography and achievements of great mathematicians from Zeno to Poincare and Cantor are reviewed. It is interesting in its style and a valuable reference for the development of modern mathematics.

----., Numerology

Baltimore: Williams 1933 \$2.00

R.G.L.: H.S.

Source: 12,17

Careers of famous numerologists and explanations of their tricks are told.

----., Queen of the Sciences

Baltimore: Williams 1931 \$1.50

R.G.L.: H.S.

Source: 8,12,30,37,85

THE HISTORY OF THE UNITED STATES

OF AMERICA

FROM THE FIRST DISCOVERY OF THE CONTINENT TO THE PRESENT TIME

BY JAMES OSGOOD

VOLUME I

NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

1857

NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

1857

NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

1857

NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

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NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

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NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

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NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

1857

NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

1857

NEW YORK: PUBLISHED BY J. OSGOOD, 155 NASSAU ST.

----., The Development of Mathematics

New York: McGraw 1940 \$4.50

R.G.L.: C.

Source: 2,54

The author presents a broad account of the part played by mathematics in the evolution of civilization, describing the main principles, methods, and theories that have survived from 4000 B.C. to 1940.

----., The Search for Truth

Baltimore: Williams 1934 \$3.00

R.G.L.: C.

Source: 12,18,76

Mr. Bell's purpose is to trace and discuss the endeavors of man to do straight thinking in his search for truth about himself, the universe, and its phenomena. He presents case histories of scientists, discusses mathematical and practical building achievements of the Egyptians and the endless game of deductive reasoning by the Greeks.

Beman, W. W. and David Eugene Smith, Geometric Exercises in Paper folding

Chicago: Open Court 1901 \$1.00

R.G.L.: H.S.

Source: 12

We find how the polygon, circles, and other curves can be folded or pricked on paper

Bemelman, Ludwig, At Your Service: The Way of Life in a Hotel

New York: Row 1941 \$.96

R.G.L.: H.S.

Source: Publisher

A tour through the hotel shows the people at work, their problems and opportunities. There is a correlation with city planning and public health.

Bentley, Byron, Recreations for the Mathematics Club

Menasha: Mathematics Teacher 1930 Consult library files

R.G.L.: H.S.

Source: 7

Recreations chosen from plane geometry, solid geometry, and trigonometry.

Bentley, W. A. and Humphreys, W. J., Snow Crystals

New York: McGraw 1931 \$10.00

R.G.L.: H.S.

Source: 8

The story of the snow crystal, the snowflakes, its cousin the dewdrop is related.

January 10, 1900

Dear Sir,

I have the honor to acknowledge the receipt of your letter of the 8th inst.

in relation to the matter of the purchase of the land for the proposed road.

I am sorry to hear that you have been unable to obtain the necessary information.

I will be glad to assist you in any way I can.

I am, Sir, very respectfully,
Your obedient servant,

J. H. [Name]

Enclosed for you are the papers relating to the proposed road.

I am, Sir, very respectfully,
Your obedient servant,
J. H. [Name]

Berman, Samuel, Fryer, J. E., Bernard, J. L., Community Activities

Chicago: Winston 1938 \$.76

R.G.L.: 5 - 6

Source: 23

Pp. 78-81 money, 78-89 saving and thrift

----., Community Helpers

Chicago: Winston 1938 \$.72

R.G.L.: 4 -5

Source: 23

Pp. 201-205 grocers

Berry, Robert Elton, Sextant and Sails

New York: Bobbs 1943 \$3.50

R.G.L.: n.s.

Source: 47

Here we find a biography of Nathaniel Bowditch.

----., The Street of Little Shops

New York: Doubleday 1932 \$1.50

R.G.L.: I - II - III

Source: Publisher and 9

Here we find a story of village shopkeepers.

Bianco, Mrs. Margery and O'Donnell, Mabel, Five-and-a-half Club

New York: Row 1942 \$.96

R.G.L.: III

Source: 26

Pp. 31, 36-46 arithmetic, v.p. earning money, 33-47 hardware stores

Binger, Walter David, What Engineers Do

New York: Norton 1938 \$3.00

R.G.L.: VI - IX

Source: 4,10

Materials used and actual work done are described in detail. Illustrations and diagrams are included. There are chapters on surveying, also making and reading topographic maps.

Bird, J. Malcolm, Einstein's Theories of Relativity and Gravitation

Chicago: Scientific American Monthly 1921 \$2.00

R.G.L.: IX

Source: 18

A collection of essays is presented.

Black, H. G., Paths to Success

Boston: Heath 1924 \$1.40

R.G.L.: VII - XII

Source: 16

Sixteen essays for secondary schools are given. One essay is on mathematics which tells how mathematics got started, what keeps mathematics going, and mathematics for the love of it.

Blackhurst, James Herbert, Principles and Methods of Junior High Mathematics

New York: Century 1928 \$2.50

R.G.L.: T

Source: 2

Parallel readings are contained in this book. A bibliography of mathematical tests is given suitable for use in a junior high school.

Bliss, G. A., Mathematical Interpretation of Geometrical and Physical Phenomena

New York: American Mathematical Monthly 1933 Consult library files

R.G.L.: H.S. and C.

Source: 18

This is a lecture given to explain the great service of mathematical theories in many experimental sciences, in correlating the results of observations and in predicting new data afterwards verified by observation.

Blossfeldt, Karl, Art Forms in Nature

New York: Weyhe 1929 Vol. I \$12.50, Vol. II \$10.50

R.G.L.: IX

Source: 18

Examples from the plant world are photographed directly from nature.

Boesel, Mrs. Ann Sterling, Sing and Sing Again

Toronto: Oxford 1938 \$2.50

R.G.L.: M and T

Source: 25

Pp. 72 carpentry songs

----., Singing with Peter and Patsy

Toronto: Oxford 1944 \$2.00

R.G.L.: M

Source: 26

Pp. 16-17 counting songs

Bond, Alexander Russell, American Boys Engineering Book

Chicago: Lippincott 1918 \$2.50

R.G.L.: H.S.

Source: 19

Diagrams are given for astronomy, surveying, electric power, weather bureaus, etc.

Bontemps, Arna and Langston, Hughes, Popo and Fifina

New York: Macmillan 1932 \$1.75

R.G.L.: V - VI

Source: 23

Pp. 63-80 carpentry

Boon, Frederic C., A Companion to Elementary School Mathematics

New York: Longmans 1924 \$4.50

R.G.L.: H.S.

Source: 22

A useful historical outline together with a set of bibliographical notes is given. Also are discussed the eleven proofs of the theorem of Phthagoras.

----., Puzzle Papers in Arithmetic

London: Mills 1926

R.G.L.: H.S. and C.

Source: 6,80

A set of puzzle questions can be found here which requires a knowledge of the four fundamentals, simple processes in fractions, common-sense and ingenuity. The papers are found to be in close accord with Intelligence Tests.

Bourgeois, Florence, Peter, Peter, Pumpkin Grower

New York: Doubleday 1937 \$1.25

R.G.L.: II - III and S.C.

Source: 25

Earning money stories are told.

Boy Scouts of America, Handbook for Boys

New York: Boy Scouts Pub. 1944 \$.50

R.G.L.: VI - VII

Source: 4

Pp. 137-161, 181-183, 212, 223 signals and signaling. This book includes woodcraft, handicraft, and games.

Boyce, G. A. and Beatty, W. W., Mathematics of Everyday Life

New York: Inor 1936 \$3.01

R.G.L.: H.S.

Source: 6

Experiments with elementary surveying devices are explained at the early high school level.

4. The fourth part of the document discusses the implications of the findings. It suggests that the results have significant implications for the field of study and may lead to further research in this area.

5. The fifth part of the document concludes the study. It summarizes the main findings and provides a final statement on the importance of the research.

----., The Economics of Health

New York: Inor 1936 \$.72

R.G.L.: H.S.

Source: 7

Is health an important economic problem in the U. S.? More mathematics is presented in this book than is first evident.

Boyce, M. G., Numero

Cleveland Heights: Boyce 1938 \$.30

R.G.L.: H.S.

Source: 7

Here is a game of mathematical anagrams which may be adapted to pupils in upper grades and high school.

Boyer, Carl Benjamin, Concepts of the Calculus

New York: Columbia University 1939 \$3.75

R.G.L.: C.

Source: 28

A critical and historical discussion of the derivative and the integral is given.

Bradley, Amos Day, The Geometry of Repeating Design and Geometry of Design for High School

New York: Columbia University 1933 \$1.60

R.G.L.: IX

Source: 18

This contribution to education tells of the value of geometry in design.

----., Mathematics of the Air and Marine Navigation

New York: American Book 1942 \$1.00

R.G.L.: H.S. and C.

Source: 28

There are forty-eight pages of maps. Several navigation tables are given.

----., A Primer of Higher Space

New York: Knopf 1923 \$2.50

R.G.L.: IX

Source: 18,76

The fourth dimension is discussed to which is added Man the square, a higher space parable.

Bragdon, Claude Fayette, Projective Ornament

New York: Knopf 1915 \$2.00

R.G.L.: IX

Source: 18,76

The application of three and four dimensional descriptive geometry of ornament is made.

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----., The Beautiful Necessity

New York: Knopf 1939 \$2.50

R.G.L.: IX

Source: 18

This book describes the art of architecture and the arithmetic of beauty.

----., The Frozen Fountain

New York: Knopf 1932

R.G.L.: IX

Source: 6,18

The theory of ornament and architecture, related to five regular solids and regular polyhedrons of the fourth dimension, is presented.

Bragdon, Mrs. Lillian J., Tell Me the Time, Please

New York: Stokes 1936 \$1.25

R.G.L.: IV - V

Source: 23

The story of clocks, watches, and the standard of living is related.

----., Words on Wings

New York: Farrar 1938 \$1.75

R.G.L.: V - VII

Source: 23

Pp. 92-101 signals and signaling.

Branford, B., A. Study of Mathematical Education

New York: Oxford 1921 \$2.50

R.G.L.P H.S. and C.

Source: 15

An idea is given of the recent reform movement in England.

Brasch, F. E. (editor), Sir Isaac Newton

Baltimore: Williams 1928 \$2.00

R.G.L.: C

Source: 18

Newton's contributions are evaluated in the light of modern criticism.

Breckenridge, W. E., Messereau, S. F., Moore, C. F., Shop Problems in Mathematics

New York: Ginn 1910 \$1.40

R.G.L.: H.S.

Source: 22

Interesting applications of mathematics are shown which includes problems in carpentry and metal work.

Breslich, Ernst Rudolph, Algebra, an Interesting Language

New York: Newson 1939 \$1.00

R.G.L.: VII - XII

Source: 37

Algebra is shown as of practical and social value in science, business, industry, engineering etc. The applications of algebra and arithmetic in life around us are discussed.

----., Excursions in Mathematics

Chicago: Orthovis 1938 \$1.20

R.G.L.: VII - XII

Source: 8,18,37

The uses of geometry and geometric formulas are discussed.

Bridges, Charles Thomas, Young Folks Book of Invention

Boston: Little 1926 \$2.00

R.G.L.: VII - VIII

Source: 4

The whole field of invention is covered from primitive man's to wireless telegraphy.

Brigham, A.P. and McFarlane, Charles T., Our Continental Neighbors

New York: American Book 1938 \$1.60

R.G.L.: VI - VIII

Source: 23

Pp. 374 standard time

Brinton, Willard C., Graphic Methods of Presenting Facts

New York: McGraw 1914 \$6.00

R.G.L.: H.S. and C.

Source: 15,18

An interesting presentation of the entire field of graphic work is presented.

----., The Story of Figures

Detroit: Burroughs Adding Machine 1939 Free

R.G.L.: H.S.

Source: 7,18

The history and use of figures is discussed.

Brock, Emma Lillian, To Market! To Market

New York: Knopf 1930 \$1.75

R.G.L.: P.S. and I - II

Source: 9

Two animals go to market for the purpose of bartering.

Brodetsky, S., A First Course in Nomography

LaSalle: Open Court 1925 \$3.00

R.G.L.: H.S.

1. The first part of the paper is devoted to a discussion of the

main results of the paper.

2. The second part of the paper is devoted to a discussion of the

main results of the paper.

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15. The fifteenth part of the paper is devoted to a discussion of the

main results of the paper.

16. The sixteenth part of the paper is devoted to a discussion of the

main results of the paper.

Source: 8

Descartes' "coordinate geometry" for present day living is insufficient. Therefore the idea of using collinear points constitute the chief beauty of the methods of this book. Collinear points were developed by O'Cagne in 1884.

----., Sir Isaac Newton

Boston: Luce 1928 \$2.00

R.G.L.: H.S. and C.

Source: 7

This is one of the best biographies of Sir Isaac Newton obtainable.

Brookman, T. A., Family Expense Account

Boston: Heath 1925 \$1.00

R.G.L.: H.S.

Source: 15

A summary is made of the subject of household accounts.

Brown, Earle B., Optical Instruments

New York: Chemical Publishers 1945 \$10.00

R.G.L.: H.S. and C.

Source: 22

The story of the necessity, use and construction of optical instruments is told.

Brown, Elinor, Little Story Book

New York: Oxford 1940 \$1.50

R.G.L.: T

Source: 25

Pp. 12-13 grocery stores

Brown; Joseph C., Easy Number Tricks for Young and Old

Pelham, N. Y.: J. C. Brown 1936 \$.69

R.G.L.: VII - XII

Source: 18, 28, 44, 84

A collection of more than one hundred fascinating number tricks is found here, with other interesting recreations.

----., and others, Fun With Numbers

New York: Row 1931 \$.64

R.G.L.: II - III

Source: 27

Pp. 119-121 calendars, 21, 83, 132-134 money, 33-34 restaurants and lunchrooms.

Brownell, Ella, Mathesis (a play)

Menasha: Mathematics Teacher 1927 Consult library files

R.G.L.: H.S.

Source: 17

This play was written for Junior High pupils. It requires simple costumes and simple stage setting. There are provisions for incidental music. Fifteen pupils may participate.

Bruner, Herbert Bascom and Smith, Mabel G., Social Studies, Intermediate Grades

New York: Merrill 1938 \$1.48

R.G.L.: VI - VIII

Source: 23

Pp. 519-28 banks and banking

Bryant, Mrs. Lorinda Munson, Children's Book of Celebrated Towers

New York: Appleton 1926 \$2.50

R.G.L.: P and VI - VIII

Source: 23

Pp. 62-63 clocks and watches

Buchanan, Scott, Poetry and Mathematics

New York: Day 1930 \$2.50

R.G.L.: H.S.

Source: 18, 22

Alice-in-Wonderland atmosphere is found here.

Buckingham, Burdette Ross, Come With Me

New York: Ginn 1936 \$.24

R.G.L.: PP

Source: 25,

Pp. 35-41 shopping

----., Let's Play

New York: Ginn 1934 \$.20

R.G.L.: PP

Source: 27

Pp. 32-36 playing store

----., Munching Peter

New York: Ginn 1934 \$.92

R.G.L.: II - III

Source: 25

Pp. 34-39 earning money

----., Play Days

New York: Ginn 1934 \$.68

R.G.L.: P

Source: 27

Pp. 43-51, 148 playing store

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-----., Playing Together

New York: Ginn 1934 \$.72

R.G.L.: I

Source: 25

Pp. 28-31 signals and signaling

Buckly, Earle A., How to Sell By Mail

New York: McGraw 1938 \$2.00

R.G.L.: H.S. and C.

Source: 28

An informative discussion is given on how to merchandise goods and services profitably through the mails.

Buell, Clayton E., Mathematics for the Sheet Metal Worker in General and Air Craft Shops

New York: Pitman 1943 \$2.00

R.G.L.: H.S. and Trade Schools

Source:

This book is dedicated to the practical shop man. The mathematics arises from shop problems and blueprints. It includes all branches of mathematics needed for the practical shop worker plus advanced work for serious students.

Buff, Mrs. Mary Marsh, Dancing Cloud: the Navajo Boy

New York: Viking 1937 \$2.00

R.G.L.: IV - VI

Source: 23

Pp. 76-80 trading posts

Bullivant, Cecil Henry, Everybody's Book of Hobbies

New York: Dodge 1912 \$2.00

R.G.L.: VII - VIII

Source: 4

A home workshop is described including indoor hobbies and kinds of coins.

Bunce, W. H., Son of the Iroquois

Philadelphia: Macrae 1936 \$1.50

R.G.L.: V - VI

Source: 23

Pp. 92-108 wampum

Burbank, Addison, Cedar Deer

New York: Coward 1940 \$2.00

R.G.L.: VI - VIII

Source: 24

Pp. 37-55 markets in Guatemala

1. The first part of the paper is devoted to a general discussion of the problem.

2. The second part is devoted to a detailed analysis of the results.

3. The third part is devoted to a discussion of the conclusions.

4. The fourth part is devoted to a discussion of the future work.

5. The fifth part is devoted to a discussion of the references.

6. The sixth part is devoted to a discussion of the appendix.

7. The seventh part is devoted to a discussion of the bibliography.

8. The eighth part is devoted to a discussion of the index.

9. The ninth part is devoted to a discussion of the table of contents.

10. The tenth part is devoted to a discussion of the list of figures.

11. The eleventh part is devoted to a discussion of the list of tables.

12. The twelfth part is devoted to a discussion of the list of references.

13. The thirteenth part is devoted to a discussion of the list of figures.

14. The fourteenth part is devoted to a discussion of the list of tables.

15. The fifteenth part is devoted to a discussion of the list of references.

Burglon, Nora and others, Children of the Soil

Boston: Heath 1941 \$.40

R.G.L.: V - VII

Source: 23

Pp. 238-257 auctions, 15-28 markets

Burton, Charles Pierce, Moving the Earth

New York: Holt 1936 \$2.00

R.G.L.: VI - VIII

Source: 23

This book is written in simple style on the subject of engineering.

Bush, Maybell Grace and Waddell, John Franklin, How We have Conquered Distance

New York: Macmillan 1934 \$.96

R.G.L.: IV - VI

Source: 4, 23, 42

The history of transportation and communication is related.

Pp. 187-188 numbers, 169-179 signals and signaling.

Buswell, Guy Thomas, and others, Daily-Life Arithmetics, Grade Three

New York: Ginn 1938 \$.80

R.G.L.: III

Source: 25, 33, 35, 56

Pp. 286-289 money, 281-5 numbers, 274-6 postage stamps, 297-300 weights and measures

----., Daily-Life Arithmetics, Grade Four

New York: Ginn 1938 \$.72

R.G.L.: IV - V

Source: 23

Pp. 264-270 calendars, 273-277 Chinese mathematics, 260-263 clocks and watches, 256-257 weights and measures.

The last chapters correlate arithmetic with other subjects.

----., Daily-Life Arithmetics, Grade Five

New York: Ginn 1938 \$.76

R.G.L.: V - VI

Source: 23, 35, 78

Pp. 282-6 barter, 287-289 weights and measures

----., Daily-Life Arithmetics, Grade Six

New York: Ginn 1938 \$.76

R.G.L.: VI - VII

Source: 23, 35, 78

Pp. 305-307 Egyptian mathematics, 187-188 numbers

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----., Jolly Number Tales, Book One

New York: Ginn 1938 \$.80

R.G.L.: I

Source: 25,33,35,47,74,75,80

Pp. 108-130 calendars, 157-168 earning money, 39-43 and 126 shopping

----., Jolly Number Tales, Book Two

New York: Ginn 1938 \$.88

R.G.L.: II

Source: 25,35,57,75,80

Pp. 20-34, 77-85, 105-108 shopping

Butler, Blanche and Mallon Grace, Puppy Dog Number Book

Akron: Saalfeld 1939 \$.10

R.G.L.: I

Source: 80

A book of number rhymes with illustrations.

Cajori, Florian, Absurdities Due to Division by Zero

Menasha: Mathematics Teacher 1929

R.G.L.: H.S.

Source: 7

An historical note is contained in this article.

----., A History of Elementary Mathematics with Hints on Methods of Teaching

New York: Macmillan 1921 \$2.50

R.G.L.: H.S.

Source: 7,20,22,42,54,72

A survey of the number system used in arithmetic, algebra, and geometry is made.

----., A History of Mathematics

New York: Macmillan 1919 \$4.50

R.G.L.: H.S.

Source: 7,8

This book contains an account of the history of higher mathematics.

----., History of Mathematical Notations

LaSalle: Open Court, Vol. I 1928, Vol. II 1929, \$6.00 each volume

R.G.L.: H.S. and C.

Source: 7,18

This is a comprehensive treatment of mathematical notations with many facsimiles of documents and textbooks. Valuable summaries are also contained in this book.

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----., History of Zeno's Arguments on Motion

New York: American Mathematical Monthly 1915 Consult
library files

R.G.L.: H.S.

Source: 18

The title explains the contents.

----., Mathematics in Liberal Education

London: Christopher 1928 \$1.50

R.G.L.: H.S.

Source: 18

A critical examination is made of the judgment of prominent men of the ages.

----., On the History of Gunter's Scale and the Slide Rule During the Seventeenth Century

Berkeley: Univ. of California 1920 \$.35

R.G.L.: H.S. and C.

Source: 6

Here we find an historical treatment of the slide rule.

----., Sir Isaac Newton

Berkeley: University of California 1934 \$10.00

R.G.L.: C.

Source: 2,28

The mathematical principles of Sir Isaac Newton's natural philosophy and his System of the world has been written here. Cajori has revised it and added a history and explanatory appendix. It was translated into English by Andrew Motte in 1729.

----., The Early Mathematical Sciences in North and South America

Boston: Badger 1928 \$2.00

R.G.L.: H.S.

Source: 2,28

The early settlers learned not only navigation, astronomy, and surveying which they needed but also they passed beyond the immediate necessities.

----., The Works of William Oughtred

LaSalle: Open Court 1916 \$1.00

R.G.L.: H.S. and C.

Source: 7

An account is given of the life and works of the English scholar who invented the slide rule.

Camp, Ruth Orton, Story of Markets

New York: Harper 1929 \$1.25

R.G.L.: V - VII

Source: 4,23

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

REPORT NO. 100

BY

DR. J. R. OPPENHEIMER

AND

DR. H. A. BETHE

CHICAGO, ILL.

1947

A graphic picture of the history of markets is given from the days of barter and trade to modern mail orders, grocery houses and chain stores.

Campbell, Dorcas E., Careers for Women in Banking and Finance
New York: Dutton 1944 \$2.75

R.G.L.: H.S. and C.

Source: School Science and Mathematics 1946

A survey of jobs that women now hold in banking is made.

Campbell, Edna Fay and others, Old World Past and Present
New York: Scott 1937 \$1.84

R.G.L.: V - VIII

Source: 23,69

Pp. 85 money, 38-39 weights and measures

Capablanca, Jose Raoul, Chess Fundamentals
New York: Harcourt 1938 \$1.49

R.G.L.: H.S. and C.

Source: 28

The A-B-C of chess is explained.

Carmichael, Robert D. and others, A Debate on the Theory of Relativity

LaSalle: Open Court 1927 \$2.00

R.G.L.: H.S. and C.

Source: 18

Relativity is favored by R. D. Carmichael and Harold Davis.
It is opposed by William D. MacMillan and Mason E. Hufford.

Carpenter, Frank George and Carpenter, Frances, Clothes We Wear
New York: American Book 1926 \$.84

R.G.L.: IV - V

Source: 23

Pp. 191-193 shopping

----., Foods We Eat

New York: American Book 1925 \$.80

R.G.L.: IV - V

Source: 23

Pp. 174-178 grocers

----., Our Little Friends of the Arabian Desert, Adi and Hamda

New York: American Book 1934 \$.80

R.G.L.: IV - V

Source: 23

Pp. 202-213 shopping

Carpenter, Frances, Our Little Friends of China, Ah Hu and Ying Hwa

New York: American Book 1937 \$.80

R.G.L.: IV - V

Source: 23, 69

Pp. 73 arithmetic, 168-184 markets

----., Our Little Friends of the Netherlands

New York: American Book 1935 \$.80

R.G.L.: III

Source: 25

Pp. 78-93 markets of the Netherlands

----., Our Little Friends of Norway, Ola and Marit

New York: American Book 1936 \$.80

R.G.L.: IV - VI

Source: 23

Pp. 141 money

----., Our Little Neighbors at Work and Play

New York: American Book 1939 \$.76

R.G.L.: III - IV

Source: 23

Pp. 147, 155-161 shopping

----., Our South American Neighbors

New York: American Book 1942 \$1.16

R.G.L.: VI --- VIII

Source: 24, 69

Pp. 438-449 graphs

----., Ourselves and Our City

New York: American Book 1928 \$1.00

R.G.L.: IV - VI

Source: 23

Pp. 204-205 banks and banking, 196-208 money, 167-171 postage stamps, 209-214 saving, thrift plays

Carter, Mrs. Mary Duncan, Story of Money

New York: Farrar 1932 \$1.25

R.G.L.: VI - VII

Source: 4, 23, 61

A simple account is given of the use and growth of money from barter to the present.

Cassady, Constance, Kitchen Magic

New York: Farrar 1932 \$1.50

R.G.L.: IV - VII

Source: 9

Ann's mother proves there are many interesting things besides magic in cooking, including economics. There are

4. The fourth part of the document provides a summary of the findings and offers recommendations for future research. It suggests that further studies should be conducted to explore the relationship between the variables identified in this study and to develop more effective strategies for managing the organization's resources.

5. The final part of the document is a conclusion that summarizes the overall findings of the study. It reiterates the importance of accurate record-keeping and data analysis for the success of the organization and expresses confidence in the results of the study.

recipes in every chapter.

Cavileer, J. W., Model Boat Building for Boys

St. Paul: Bruce 1923 \$1.65

R.G.L.: VII - IX

Source: 11

Here we find a manual on construction and design of several types of model sail and electrically propelled crafts. Directions and descriptions are explicit. Diagrams are clear.

Chalmers, Audrey, I Had A Penny

New York: Viking 1944 \$1.00

R.G.L.: PS

Source: 26

Pp. 44 shopping stories

Charters, Werrett Wallace, Habits, Healthful and Safe

New York: Macmillan 1941 \$.92

R.G.L.: V - VII

Source: 24

Pp. 119-122 thermometers

----., and others, Health Problems

New York: Macmillan 1935 \$.80

R.G.L.: V - VII

Source: 23

Pp. 175-182 shopping for food

----., Through the Year

New York: Macmillan 1941

R.G.L.: 11

Source: 25

Pp. 119-120 grocery stores, 53-57 thermometers, 14-16 thrift

----., Wise Health Choices

New York: Macmillan 1935 \$.72

R.G.L.: IV - VI

Source: 23

Pp. 5, 79, 91 graphs

Chase, Borden, Sandhog

New York: Row 1938 \$2.50

R.G.L.: H.S.

Source: Publisher

The author tells of the experiences of getting a job in the tunnels. There is much information on the mechanics of tunnel construction. City planning, transportation, and the history of industry is correlated.

[The text on this page is extremely faint and illegible. It appears to be a list or a series of entries, possibly containing names and dates, but the specific details cannot be discerned.]

Cherry, Raymond, General Plastics
 Bloomington, Ill.: McKnight 1941 \$1.20
 R.G.L.: H.S.
 Source: 6

The author gives an account of the rise of plastics in model making.

Childs, J. M. (translator), The Geometrical Lectures of Isaac Barrow
 LaSalle: Open Court 1916 \$1.25
 R.G.L.: C.
 Source: 7

These lectures were given by Newton's teacher. The translator claims to have discovered an absolutely complete elementary treatise on the infinitesimal calculus.

----., (translator) The Early Mathematical Manuscripts of Leibnitz
 LaSalle: Open Court 1920 \$1.50
 R.G.L.: H.S. and C.
 Source: 7

The original copy is preserved in the Royal Library at Hanover. The manuscripts show the great importance which Leibnitz attached to suitable notations in mathematics and logic generally.

Clarke, C. R. and Small, S. A., A Boys' Book of Physics
 New York: Dutton 1922 \$2.00
 R.G.L.: VIII
 Source: 4

There are about seventy simple experiments explained. An elementary account of wireless is related. Pp. 31-46 weights and measures.

Clark, Marion G., First Three Hundred Years in America
 New York: Scribner 1936 \$1.20
 R.G.L.: V - VII
 Source: 23
 Pp. 383-390 taxation

----., Westward to the Pacific
 New York: Scribner 1935 \$1.20
 R.G.L.: V- VII
 Source: 23

Pp. 485-495 business, 309-444 immigration graphs, 281-284 markets, 25-29, 345-346 money

Clark, May Knight and Cushman, Laura, Number Play
 New York: Macmillan 1941 \$.32
 R.G.L.: P and I

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

REPORT OF THE RESEARCH GROUP ON THE CHEMISTRY OF
THE CARBON-13 ISOTOPE

BY DR. ROBERT M. HARRIS AND DR. J. H. GOLDSTEIN

CHICAGO, ILLINOIS

1955

THIS REPORT IS A SUMMARY OF THE RESEARCH WORK
DURING THE PAST YEAR IN THE RESEARCH GROUP ON THE
CHEMISTRY OF THE CARBON-13 ISOTOPE.

THE RESEARCH GROUP ON THE CHEMISTRY OF THE
CARBON-13 ISOTOPE

CHICAGO, ILLINOIS

THE RESEARCH GROUP ON THE CHEMISTRY OF THE
CARBON-13 ISOTOPE

CHICAGO, ILLINOIS

THE RESEARCH GROUP ON THE CHEMISTRY OF THE
CARBON-13 ISOTOPE

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Source: 28

Included in this little book is tracing, drawing, coloring, cutting games and races.

-----., In Number Land

New York: Macmillan 1935 \$.40

R.G.L.: I

Source: Publisher and 28

Drawing, coloring, cutting, games and races are included with increasing difficulty.

-----., Numbers at Work

New York: Macmillan 1935 \$.44

R.G.L.: II

Source: Publisher

Tracing, drawing, coloring, cutting, playing games, races, telling time, "keeping store", measuring, counting money and other realistic experiences are included in gradual step by step procedure.

Clark, Mary L., The Adventure of X, a play

Boston: Heath 1929 \$.48

R.G.L.: H.S.

Source: 12,18

The setting for this play is "the land of algebra."

Clifford, Harold Burton, America, My Home

New York: Scribner 1939 \$1.20

R.G.L.: IV - V

Source: 24

Pp. 293-297 cost and standard of living

Clifford, W. K., The Common Sense of the Exact Sciences

New York: Appleton 1888 Consult library files

R.G.L.: H.S.

Source: 18

This book correlates mathematics and philosophy.

Coblentz, Mrs. Catherine Cate, Blue and Silver Necklace

Boston: Little 1937 \$2.00

R.G.L.: IV - VI

Source: 23

Pp. 210-242 trading posts

Coffman, Raymond Peyton, Age of Discovery

New York: Putnam 1939 \$2.50

R.G.L.: IV - VI

Source: 23

The Mayan civilization is related. Pp. 22 calendars.

----., Child's Story of the Human Race

New York: Dodd 1924 \$2.00

R.G.L.: VI - VIII

Source: 23,35

Pp. 56-57, 156-157 calendars, 57-58 clocks, 190 numbers

----., Founding the Republic

New York: Owen 1931 \$.72

R.G.L.: V - VII

Source: 23

Pp. 24, 82-83 money

----., Growth of the Colonies

New York: Owen 1928 \$.72

R.G.L.: IV - VI

Source: 23

Pp. 63-64 money

----., Our America

New York: Dodd 1930 \$2.00

R.G.L.: VI - VIII

Source: 23

Pp. 20-21 Aztec calendars, 12-13 Mayan calendars, 183-184 money, 18-19 numbers

Cohen, Morris R., and Nagel, E., An Introduction to Logic and Scientific Method

New York: Harcourt 1934 \$3.50

R.G.L.: C.

Source: 18

Mr. Cohen has written this book for college students.

"In it he combines sound logical doctrine with sound pedagogy and provides illustrative material suggestive of the role of logic in every department of thought."

Cohen, Dena, Problem Play

Menasha: Mathematics Teacher 1926 Consult library files

R.G.L.: H.S.

Source: 7

This is a musical mathematics play in one act and three scenes in which King Mathematics in Numberland helps Alice to solve a problem.

Coit, Lottie Ellsworth, It's Fun to Listen

New York: Flammar 1941 \$1.50

R.G.L.: M

Source: 25

Pp. 25-27 clocks

2. The second part outlines the specific procedures for recording transactions. It details the steps from initial entry to final review, ensuring that all data is captured correctly and consistently.

3. The third part addresses the role of the accounting department in overseeing these processes. It highlights the need for regular audits and the implementation of internal controls to prevent errors and fraud.

4. The fourth part discusses the impact of these practices on the company's overall performance. It notes that accurate record-keeping leads to better decision-making and improved financial stability.

5. The fifth part provides a summary of the key points discussed and reiterates the commitment to high standards of financial reporting.

6. The final part of the document includes a list of references and a conclusion, summarizing the findings and recommendations.

Coleman, Mrs. Satis Narrona Barton, Drum Book

New York: Putnam 1931 \$1.88

R.G.L.: T

Source: 23

This book contains information on signals and signaling.

----., Singing Time

New York: Day 1929 \$2.50

R.G.L.: M

Source: 25

Found in this book are telling time songs.

Collins, Archie Frederick, Bird's Eye View of Invention

New York: Crowell 1926 \$2.00

R.G.L.: VI - VIII

Source: 4

A creditable effort is made to tell in short space the story of great inventions.

----., Fun With Figures

New York: Appleton 1933 \$2.00

R.G.L.: IX - XII

Source: 8,12,18,20,31,35,37,38,40,57,62,64,82,89

Arithmetic is used here in stunts and comedy and contains much history too. There are catchy and entertaining problems, oddities in numbers, and magic squares.

----., Short Cuts in Figures

New York: Clode 1916 \$1.00

R.G.L.: H.S.

Source: 16

Chapter nine is written on magic and contains figures.

----., The Book of Puzzles

New York: Appleton 1927 \$2.00

R.G.L.: H.S. and C.

Source: 6

Tangrams and the locus of Archimedes, a few geometrical dissections, are explained.

Collins, Francis Arnold, Boys' Book of Model Aeroplanes

New York: Appleton 1941 \$2.00

R.G.L.: H.S.

Source: 5,11

Clearly written directions are given for the construction and flying of model aeroplanes.

Collins, Gerald, Round the World in Industry

Easton, Pa.: Chemical Publishers 1940 \$2.00

R.G.L.: H.S.

Source: School Science and Mathematics, 1941

Thrilling stories are told about sixteen occupations such as cattle raising, deep sea diving, aeroplane testing, lumbering, tunneling, and coal mining. They are entertaining and instructive.

Collins, Kreigh, Tricks, Toys and Tim

New York: Appleton 1937 \$2.00

R.G.L.: VII - XII

Source: 28

Model making and magic is explained in this book. It stresses the fact that discipline problems in the home and school are often due to lack of directed study.

Comfort, Mildren Houghton, Peter and Nancy in Africa

Chicago: Beckley 1935 \$.90

R.G.L.: V - VII

Source: 23

Pp. 185-186 money

----., Peter and Nancy in Mexico, Central America, West Indies, and Canada

Chicago: Beckley 1938 \$.90

R.G.L.: V - VII

Source: 23

Pp. 785-88 air pressure, 853-854 sundials, 790 thermostats

Conant, Levi L., Number Concept

New York: Macmillan 1930 \$2.40

R.G.L.: H.S. and C.

Source: 12,15,18,22

A discussion of the primitive methods of counting and the origin of number concepts is given in this book.

Cooke, David C. and Davidson, Jesse, (editors) The Model Plane Annual

New York: McBride 1943 \$3.50

R.G.L.: H.S.

Source: 5

Plans for warplanes of the world can be found here.

Coolidge, J. L., A History of the Conic Sections of Quadric Surfaces

New York: Oxford 1945 \$6.00

R.G.L.: C.

Source: 2,28, Mathematics Teacher, October 1946

The title is self explanatory.

Corbin, Thomas W., Romance of Lighthouses and Lifeboats

Chicago: Lippincott 1926 \$3.00

R.G.L.: VIII

Source: 4

The construction and workings of lighthouses, lifeboats, and submarine signals and signaling.

Cottler, J. and Joffe, H., Heroes of Civilization

Boston: Little 1931 \$2.50

R.G.L.: V - IX

Source: 47

Brief popular sketches are given of thirty-four of the world's great explorers, inventors, biologists, and doctors such as, Newton, Einstein, and Copernicus.

Coughlan, S. and O'Donnell, M., Wishing Well

New York: Row 1943 \$.72

R.G.L.: F

Source: 26

Fp, 13-19 earning money, 34-50 shopping

Courant, R. and Robbins, H., What is Mathematics

New York: Oxford 1941 \$3.75

R.G.L.: H.S. and C.

Source: 6,89

Information is given concerning soap film experiments, linkages, and an instrument for doubling the cube.

Court, Nathan A., Art and Mathematics

Yeshiva College, N. Y.: Scripta Mathematics 1935 \$.35

R.G.L.: C.

Source: 12

The need and practical value of mathematics in art is explained.

Cousland, Gilbert, My Little Counting Book

New York: Collins 1939 \$1.00

R.G.L.: PP - II

Source: 51

A book of rhymes and verses is presented in which counting is the predominant feature.

Cozard, H. C., A Mathematical Crossword Puzzle

Menasha: School Science and Mathematics 1926 Consult library files

R.G.L.: VII - XII

Source: 6

The following mathematical terms are involved in this puzzle; sum, limit, number, problem, theorem, degree, circles, log, factor, spere, and polygon. The solution is included.

Crabtree, Eunice Katherine, In the City and On the Farm

Cambridge, Mass.: University 1940 \$.80

R.G.L.: I

Source: 25

Pp. 61-71 grocery stores

----., To School and Home Again

Cambridge, Mass.: University 1940 \$.80

R.G.L.: I

Source: 25, 57, 69

Pp. 23-25 arithmetic

----., Under the Sun

Cambridge, Mass.: University 1941 \$.96

R.G.L.: III

Source: 25

Pp. 132-142 markets

Craig, Gerald Spellman, Changes All Around Us

New York: Ginn 1940 \$.88

R.G.L.: II - III

Source: 25

Pp. 133-138 thermometers

----., Earth and Living Things

New York: Ginn 1932 \$.72

R.G.L.: IV - V

Source: 23

Pp. 87-91 air pressure

----., From Sun to Earth

New York: Ginn 1940 \$1.12

R.G.L.: V - VI

Source: 23, 69

Pp. 312 graphs

----., and others, Learning About Our World

New York: Ginn 1932 \$.76

R.G.L.: IV - V

Source: 23

Pp. 211-213 thermometers, 231-235 thermostats

----., Our Earth and Its Story

New York: Ginn 1932 \$.80

R.G.L.: VI - VIII

Source: 23, 27

Pp. 369-375 air pressure, 292-300 compasses, 264 elements in the crust of the earth, 322 Morse Code

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----., Our Earth and Sky

New York: Ginn 1932 \$.76

R.G.L.: III

Source: 25

Pp. 258-261 air pressure

----., Science Through the Year

New York: Ginn 1946 \$ 1.16

R.G.L.: II - III

Source: 26

Pp. 109-113 air pressure

----., We Find Out

New York: Ginn 1940 \$.80

R.G.L.: I - II

Source: 25

Pp. 87-93 air pressure, 123-132 thermometers

----., We Look About Us

New York: Ginn 1933 \$.72

R.G.L.: I - II

Source: 27

Pp. 36-41 stores

----., We Want to Know

New York: Ginn 1941 \$.76

R.G.L.: I

Source: 25

Pp. 26-27 carpentry

Cramer, Harold, Mathematical Methods of Statistics

Princeton, N. J.: Princeton University Press 1946 \$6.00

R.G.L.: C

Source: 67

The first part is an introduction to the fundamental concept of a distribution and of integration with respect to a distribution. The second part contains the general theory of random variables and probability distributions. The third part is devoted to the theory of sampling distributions, statistical estimation, and tests of significance.

Crawford, Alma, Little Journeys to the Land of Mathematics

Menasha: Mathematics Teacher 1924 Consult library files

R.G.L.: F.3.

Source: 17

This is a play written for high school students. It is written in three acts based on "King Mathematics Rules the World."

Crawford, Phyllis, Hello the Boat

New York: Holt 1938 \$2.00

R.G.L.: VI - VIII

Source: 23

Pp. 165 money

Credle, Ellis, Little Jeemes Henry

New York: Nelson 1942 \$1.50

R.G.L.: S.C.

Source: 25

Earning money stories are found in this book.

Crew, Mrs. Helen Cecelia Coale, Saturday's Children

Boston: Little 1927 \$2.00

R.G.L.: T

Source: 23

Occupation stories have been written in this book.

Crump, Irving, Boys' Book of the United States Mails

New York: Dodd 1926 \$2.00

R.G.L.: VI - VIII

Source: 4

The author has traced the history of mail delivery from the days of the pony express to today.

Cumley, Russell Walters, Roughneck

New York: Row 1942 \$.96

R.G.L.: H.S.

Source: Publisher

Jim Underwood takes a job on a well-digging crew to supplement his meager income.

Cushman, F., Mathematics and the Machinists' Job

New York: Wiley 1926 \$1.75

R.G.L.: H.S.

Source: 2,28

This book is particularly adapted to part time and evening trade extension classes. It is also a textbook for related shop mathematics and for day trade classes.

Cutright, Prudence and others, Living Together at Home and at School

New York: Macmillan 1944 \$1.00

R.G.L.: I - II

Source: 26

Pp. 84-93, 103-124, earning money

Dalglish, Alice, Choosing Book

New York: Macmillan 1932 \$1.25

R.G.L.: P.S.

Source: 25

This book is devoted to shopping

Dantzeg, Tobias, Number, the Language of Science

New York: Macmillan 1939 \$3.00

R.G.L.: H.S.

Source: 8,18,20,31,37,72,85

A critical survey is written here for cultural non-mathematicians. In this study of the evolution of the modern number concept, technicalities are avoided as far as possible.

Darrow, Floyd Lavern, Builders of Empires

New York: Longmans 1930 \$2.00

R.G.L.: VII - VIII

Source: 4

Pp. 54-67 bankers and groups of financeers

----., Thinkers and Doers

New York: Macmillan 1925 \$2.00

R.G.L.: VII - IX

Source: 11

Laboratory apparatus is described and directions for experiments are given. Also we have here twelve biographical sketches of noted scientists.

Davis, Dorothea H., How the World Supports Man

Chicago: Follett 1931 \$.88

R.G.L.: VI - VIII

Source: 23

The industries at which man works are described here.

Davis, Horace W., Money Sense, An Introduction to Personal Economics

New York: McGraw 1934 \$2.00

R.G.L.: H.S.

Source: 9

Advice is given on managing personal finance.

Davison, Charles, Subjects for Mathematical Essays

New York: Macmillan 1915 \$1.90

R.G.L.: H.S.

Source: 22

Diagrams are suggested also exercises and problems are discussed.

DeAngeli, Mrs. Marguerite, Henner's Lydia

New York: Doubleday 1936 \$2.00

R.G.L.: V - VI

Source: 23

This book tells about markets in the United States.

----., Ted and Nina Go to the Grocery Store

New York: Doubleday 1935 \$.50

R.G.L.: S.C.

Source: 9,25

A series of stories about grocery stores can be read in this book.

Dearborn, Blanche J., City Friends

New York: Macmillan 1936 \$.80

R.G.L.: II - III

Source: 27

Pp. 8-10, 55-72 stores

----., How the Indians Lived

New York: Ginn 1927 \$.88

R.G.L.: III

Source: 25

Pp. 153-161 signals and signaling, 189-192 trading and wampum.

DeBray, M. E. J., Gheury, Exponentials Made Easy

New York: Macmillan 1921 \$1.75

R.G.L.: H.S.

Source: 18

The author gives the story of Epsilon in this book.

Dedekind, R., Essays on Number

LaSalle: Open Court 1901 \$.75

R.G.L.: H.S. and C.

Source: 15

The essays set forth clearly the nature of the irrational number.

DeHuff, Mrs. Elizabeth Willis, Two Little Hopi

Chicago: Mentzer 1938 \$.80

R.G.L.: III

Source: 25

Pp. 96-102 markets

DeLeeuw, D. and B., Dina and Betsy

New York: Macmillan 1940 \$1.00

R.G.L.: IV - V

Source: 24

Pp. 58-81 markets in the Netherlands

Deming, A. G., Number Stories

Chicago: Beckley 1938 \$1.25

R.G.L.: I - III

Source: 12

Five stories are written in this book, each describing incidents calling for numerical calculation.

Deming, Mrs. Theresa Osterheld, Indians of the Wigwams

Chicago: Whitman 1938 \$1.50

R.G.L.: III - V

Source: 23

Pp. 68-70 wampum

----., Red People of the Wooded Country

New York: Laidlaw 1932 \$.92

R.G.L.: III

Source: 25

Pp. 150-163 trading

DeMorgan, A., Budget of Paradoxes (2 volumes)

LaSalle: Open Court 1915 \$5.00

R.G.L.: H.S.

Source: 7, 16, 18, 76

This satire is written about the circle squarers with notes by David Eugene Smith explaining contemporary allusions the point of which would otherwise be lost.

----., Essays on the Life and Works of Newton

LaSalle: Open Court 1914 \$1.25

R.G.L.: H.S.

Source: 7

This volume of essays gives interesting points on Newton's life and works and is especially valuable for the light which it throws on the Newton Leibnitz controversy.

----., On the Study and Difficulties in Mathematics

LaSalle: Open Court 1902

R.G.L.: H.S.

Source: 18

The purpose of this treatise is to point out to the student the course most advisable for him. It shows points which involve difficulties and are apt to be misunderstood by beginners.

Depew, Arthur M., The Cokesbury Game Book

Nashville: Cokesbury 1929

R.G.L.: V - VII

Source: 41

More than six hundred games, entertainment plans, and suggestions for leisure time activities are given. Songs with music are also included.

Dewey, Davis Rich, Financial History of the United States

New York: Longmans 1903 \$3.00

R.G.L.: H.S. and C.

Source: 7

This book records the history of tariff and finance in the

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United States. There are references at the beginning of each chapter. The book contains suggestions for students, teachers, and readers.

----., National Problems

New York: Harper 1907 Out of print

R.G.L.: H.S. and C.

Source: Library of Congress Catalog (bound volume)

Here we may read about the growth and development of the civil service, tariff agitation, organized labor, silver and expenditures, maintenance of the gold standard, and the campaign for free coinage.

Dewey, John, How We Think

Boston: Heath 1910 \$.35

R.G.L.: H.S.

Source: 18

This work deals with education as a public business and expert service. It states a range of problems on which our administration may spend more thought.

Dilling, Hulda A. and Welsh, Joanna, Markets of the World

Chicago: Lyons 1942 \$.64

R.G.L.: IV - VI

Source: 24

The markets of Bolivia and Brazil are discussed.

Disraeli, Robert, Here Comes the Mail

Boston: Little 1939 \$1.65

R.G.L.: VI - VIII

Source: 23

Pp. 40-42, 104-106 money orders, 30-35, 86-87 parcel post, 21-25 postal savings, 15-19 postage stamps

----., Uncle Sam's Treasury

Boston: Little 1941 \$1.65

R.G.L.: VI - VIII

Source: 61

Pp. 80-91 money, 7-60 taxation

Dixon, Jack, Count the Puppies

New York: Crowell 1945 \$1.00

R.G.L.: I

Source: 40, 78

Here is a counting book made interesting by pictures of dogs.

Dodgson, Charles (Lewis Carroll, Pseud.), Euclid and His Modern Rivals

New York: Macmillan 1879 Consult library files

The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

In the second part of the paper, the author discusses the problem of the structure of the nucleus. It is shown that the structure of the nucleus is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

The third part of the paper is devoted to a discussion of the problem of the structure of the molecule. It is shown that the structure of the molecule is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

In the fourth part of the paper, the author discusses the problem of the structure of the crystal. It is shown that the structure of the crystal is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

The fifth part of the paper is devoted to a discussion of the problem of the structure of the liquid. It is shown that the structure of the liquid is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

In the sixth part of the paper, the author discusses the problem of the structure of the gas. It is shown that the structure of the gas is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

The seventh part of the paper is devoted to a discussion of the problem of the structure of the plasma. It is shown that the structure of the plasma is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

In the eighth part of the paper, the author discusses the problem of the structure of the solid. It is shown that the structure of the solid is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

The ninth part of the paper is devoted to a discussion of the problem of the structure of the liquid crystal. It is shown that the structure of the liquid crystal is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

In the tenth part of the paper, the author discusses the problem of the structure of the superconductor. It is shown that the structure of the superconductor is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

The eleventh part of the paper is devoted to a discussion of the problem of the structure of the semiconductor. It is shown that the structure of the semiconductor is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

In the twelfth part of the paper, the author discusses the problem of the structure of the insulator. It is shown that the structure of the insulator is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

R.G.L.: H.S. and C.

Source: 17

A criticism is given here of modern textbooks of elementary geometry in drama form representing the trials of books in the underworld before Minos as Judge.

----., Tangled Tales

New York: Macmillan 1885 \$1.25

R.G.L.: H.S. and C.

Source: 62

"The writers intention was to embody in each Knot--one or more tangled tale--mathematical questions."

----., Alice's Adventures in Wonderland

Leicester: Newman 1899 10S 6d

R.G.L.: IV - VI

Source: 7

Certain parts remind one that the author, C. L. Dodgson, was a mathematician of no small note. Illustration of a theorem and its converse is given when he says, "I say what I mean" and "I mean what I say."

D'Ooge, M. L., (translator) Nicomachus of Gerasa, An Introduction to Arithmetic

Ann Arbor: Wahr 1926 \$2.50

R.G.L.: H.S.

Source: 2,28

Much of the terminology of arithmetic is explained and the early development of the number theory is indicated.

Dopp, Katherine Elizabeth and others, Busy Days with Little Friends

Chicago: Rand 1935 \$.68

R.G.L.: I

Source: 27

Pp. 102-107 pet store, 138-144 flower store

Downer, Alvin Emery, Practical Mathematics of Aviation

New York: Pitman 1931 \$1.00

R.G.L.: H.S. and C.

Source: 2,20

After a review of mathematics, the author continues through the study of simple algebraic equations. The right triangle is given considerable consideration.

Dresden, Arnold, An Invitation to Mathematics

New York: Holt 1936 \$2.80

R.G.L.: C.

Source: 18,30,54,89

The purpose of the book is to make mathematics interesting and yet serve the serious purpose of large numbers who wish to know something about its nature.

Drury, Francis Edson and Haslam, W. T., Mathematics for the Students of Building

London: Arnold 1932 4S 6d

R.G.L.: H.S.

Source: 2,28

This book includes a course in mathematical processes and general building calculations. It is suitable for evening courses in general building technology.

Dudeney, Henry E., Amusements in Mathematics

New York: Nelson 1917 \$1.50

R.G.L.: H.S.

Source: 8,12,18,20,22,36,37,44,57,59,62,76,82,84,86

This is a book of interesting puzzles and problems. The puzzles are in one section and the answers in another.

----., Canterbury Puzzles and Other Curious Problems

New York: Nelson 1927 \$1.50

R.G.L.: H.S.

Source: 8,12,16,18,22,80,89

One Hundred fourteen puzzles with solutions are given. The puzzles referred to appear in "The Canterbury Tales."

----., Modern Puzzles and How to Solve Them

New York: Stokes 1926 \$1.95

R.G.L.: H.S.

Source: 6,8,18

This book was written and originally published in England. It contains arithmetical puzzles and their solutions.

----., Puzzles and Curious Problems

New York: Nelson 1932 \$1.50

R.G.L.: H.S.

Source: 7,8,12

Arithmetical, algebraic, and geometric puzzles with their solutions are found here.

Dull, R. W., Mathematical Aids for Engineers

New York: McGraw 1946 \$4.50

R.G.L.: H.S. and C.

Source: 2,28

Basic mathematical tools, which are essential to higher mathematics, are provided with illustrations and examples to show applications.

Dummer, Ethel S., Why I Think So or The Autobiography of an Hypothesis

Chicago: McElroy 1935 \$1.50

R.G.L.: H.S.

Source: 18

The autobiography of an hypothesis is written in this book.

DuPuy, William Atherton, Money

Boston: Heath 1927 \$.88

R.G.L.: V - VII

Source: 4,23

Pp. 171-81 banks, 105-114, 179-181 Federal Reserve Banks, V.P. money

Durell, Fletcher, Mathematical Adventures

Boston: Bruce 1938 \$2.00

R.G.L.: T

Source: 76

Reprints of articles are written on the teaching of mathematics and also on related topics which have been printed in educational journals. One of the articles is "Getting the Utmost Out of Objective Tests."

Durfee, Burr and others, Mateo and Lolita

Boston: Houghton 1939 \$.92

R.G.L.: III - V

Source: 23

Pp. 24-27, 54-55 markets in Mexico

Earle, Mrs. Alice Morse, Home Life in Colonial Days

New York: Macmillan 1899 \$2.50

R.G.L.: P.S. and T.

Source: 23

Pp. 300-324 carpentry

Eaton, Jeannette, Behind the Show Window

New York: Harcourt 1935 \$2.50

R.G.L.: VI - VIII

Source: 4,9

Industries and marketing goods are treated. Special attention is given to production and distillation to assist the consumer to buy intelligently.

Eddington, Arthur S., New Pathways in Science

New York: Macmillan 1935 \$4.00

R.G.L.: H.S.

Source: 18

The chapters are on a variety of topics in the fields of physics and astrophysics.

Edwards, Eva D. and Sung, Sze-Ai, Ling Ling

San Francisco: Wagner 1939 \$1.25

R.G.L.: IV - VI

Source: 23

Pp. 78-89 shopping in China

----., Haruko, Child of Japan

San Francisco: Wagner 1934 \$1.00

R.G.L.: III - V

Source: 23

Pp. 63-65 money

Edwards, P. G. and Sherman, J. W., Outdoor World

Boston: Little 1931 \$.88

R.G.L.: III

Source: 27

Pp. 267-269 compasses

Eells, W. C., Flatland: a Symposium

Menasha: School Science and Mathematics Magazine 1926

Consult library files

R.G.L.: C.

Source: Publisher, January 1926

This contribution gives the reaction of a class of college freshmen to Abbott's Flatland. It ranges from contempt to sincere approval. There is also a biographical sketch on Abbott.

Einstein, Albert, The Meaning of Relativity

Princeton, N. J.: Princeton Univ. Press 1946 \$2.00

R.G.L.: C.

Source: 18

A popular exposition is written here on relativity.

A knowledge of modern physics and advanced mathematics is needed for an understanding of this book. Mr. Einstein discusses advances in the theory since 1921.

Eldridge, John A., The Physical Basis of Things

New York: McGraw 1934 \$3.75

R.G.L.: H.S.

Source: 18

Chapters one and two are especially adapted for enrichment in high school algebra.

Eleska, Elena, I Count

New York: 190 Lexington Ave., 1941 \$1.20

R.G.L.: II and P.S.

Source: 33, 59

This little cloth book includes rhymes and counting activities.

Eliot, Frances, Pablo's Pipe

New York: Dutton 1936 \$1.75

R.G.L.: II - III

Source: 25

Markets are discussed in this book.

Emerson, C. P. and B., Habits for Health

New York: Bobbs 1936 \$.72

R.G.L.: IV - VI

Source: 23

Pp. 21 graphs

Emerson, Caroline Dwight, Indian Hunting Grounds

New York: Stokes 1938 \$1.75

R.G.L.: IV - VI

Source: 23, 69

Pp. 153-164 markets of Yucatan

Emerson, (publishers) 'Rithmetic of the Purest Kind

New York: Emerson 1939 \$.25

R.G.L.: VI - XII

Source: 28

Two-hundred tricky problems with answers are in this book.

English, Mildred, Good Friends

New York: Johnson 1935 \$.64

R.G.L.: I

Source: 25

Pp. 18, 29, 48 carpentry

----., Jo-Boy

New York: Johnson 1935 \$.56

R.G.L.: P

Source: 25, 27

Pp. 78-81 grocery stores, 70-71 pet stores

----., Wheels and Wings

New York: Johnson 1935 \$.92

R.G.L.: II - III

Source: 25, 27

Pp. 24-29 candy store, 11-14 telling time

----., Wheels Westward

New York: Johnson 1935 \$.72

R.G.L.: IV - VIII

Source: 23

Pp. 248 calendars

English, Mildred and Alexander, Thomas, Daring Deeds

New York: Johnson 1939 \$.84

R.G.L.: V - VII

Source:

Pp. 323-336 business, 160-163 clocks and watches, 367 money

-----., Wide Horizons

New York: Johnson 1939 \$.92

R.G.L.: VI - VIII

Source: 23

Pp. 4-18 business, 138-162 engineering

Ernest, Edward, A Child's First Book

New York: Doubleday 1945 \$.50

R.G.L.: I - III

Source: Publisher

The letters of the alphabet, numbers, and hours of the day are taught in games.

Ernst, Mrs. Margaret Samuels, Words: English Roots and How They Grow

New York: Knopf 1937 \$.90

R.G.L.: VI - VIII

Source: 23

Pp. 88-90 calendars

Euwe, Machgielis, Strategy and Tactics in Chess

Lynchburg: Bell 1937 \$2.75

R.G.L.: H.S. and C.

Source: 28

Hints are given for improving skill in the game of chess by analysing the most frequently occurring combinations and suggesting a classification of combinative play.

Evans, H. M., The Old and New Magic

LaSalle: Open Court 1906 \$5.50

R.G.L.: H.S.

Source: 18

Magic is discussed from the Egyptians to Kellar and Hermann.

Fallis, Edwina, Child and Things

New York: World Book 1940 \$1.76

R.G.L.: T

Source: 25

Pp. 142-143 telling time

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Faurot, Walter L., Art of Whittling

St. Peoria: Manual Arts 1930 \$1.35

R.G.L.: H

Source: 23

Throughout this book instructions for carpentry and whittling are given.

Field, Rachel Lyman, Hitty, Her First Hundred Years

New York: Macmillan 1929 \$1.00

R.G.L.: VI - VIII

Source: 23

Pp. 196-204 auctions

Fine, Reuben, Basic Chess Endings

Philadelphia: McKay 1941 \$3.50

R.G.L.: H.S. and C.

Source: 28

Suggestions are found here for basic chess and also for ways of improving skill in playing.

Fink, C., A Brief History of Mathematics

LaSalle: Open Court 1900 \$1.50

R.G.L.: H.S. and C.

Source: 15

This book is a compendium of Cantor's great German History.

Flack, M., Neighbors on the Hill

New York: Doubleday 1943 \$.92

R.G.L.: II - III

Source: 24

Pp. 20-64 earning money

Flack, M. and Larson, K., Pedro

New York: Macmillan 1940 \$2.00

R.G.L.: IV - VI

Source: 24

Pp. 18-26 markets in Mexico

Flannagan, Roy, Golden Harvest

New York: Row 1941 \$.96

R.G.L.: H.S.

Source: Publisher, 28

A graphic description of tobacco auction is written here. This book correlates history, industrial organization, and sociology.

Floherty, John Joseph, Money-Go-Round

Chicago: Lippincott 1944 \$2.00

R.G.L.: VI - VIII

Source: 61

[The text in this section is extremely faint and illegible. It appears to be a list or table with multiple columns and rows of data.]

Here is written the history of money from earliest days to the present. The last line says, "Remember that money is merely a token for labor performed."

----., On the Air: The story of Radio

New York: Doubleday 1937 \$2.00

R.G.L.: P

Source: 23

Picture material is important throughout this book on radio, radio broadcasting, and signaling.

Flory, Jane, How Many

New York: Holt 1944 \$.50

R.G.L.: P and I

Source: 26,33,51

By means of this little picture book a child may learn to count. Colorful pictures of animals appear, different numbers appearing in each group.

Floyd, Oliver R. and Kinney, Lucien P., Using Dollars and Sense or Consumer Economics

New York: Newson 1942 \$1.40

R.G.L.: H.S.

Source: Publisher

Boys and girls of high school age are shown how to get the most for their investment, whether money or time.

Flynn, Harry E. and Lund, Chester B., Tick Tock

Boston: Heath 1938

R.G.L.: IV - V

Source: 5,23

Pp. 33-44 sundials. The whole book tells the story of clocks.

Follett, Dwight W., Trains

Chicago: Follett 1936 \$.60

R.G.L.: IV - VI and P

Source: 23

Pp. 38-40 signaling

Forder, Henry G., The Foundation of Euclidean Geometry

Cambridge: University Press 1927 \$8.00

R.G.L.: H.S.

Source: 18

The object is to show that all propositions of Euclidean geometry follow logically from a small number of axioms explicitly laid down and to discuss relations between these axioms.

Forrest, Louise A., Euclid, Agrarian Arbitrator

Menasha: Mathematics Teacher 1932 Consult library files

[The text in this block is extremely faint and illegible, appearing as a series of horizontal lines across the page.]

R.G.L.: H.S.

Source: Publisher

This play is suitable for a tenth grade geometry class.

Foster, Constance L., This Rich World; the Story of Money
New York: McBride 1943 \$2.00

R.G.L.: VI - VIII

Source: 61

The history and theory of money and credit is set forth in the simple language with cartoons illustrating the important points.

Foster, Mrs. G. S., George Washington's World

New York: Scribner 1941 \$2.75

R.G.L.: VI - IX

Source: 24

Pp. 231-33 money

Fowlkes, John Guy and others, Healthy Bodies

Chicago: Winston 1936 \$.72

R.G.L.: III

Source: 25

Pp. 181-205 graphs, 149-151 thermometers

----., Healthy Living

Chicago: Winston 1938 \$.84

R.G.L.: VI - VII

Source: 23

Pp. 155-157 thermometers

Frankland, Francis W. B., The Story of Euclid

London: Newnes 1902 \$.75

R.G.L.: H.S.

Source: 18

Euclid's elements are discussed and the history of geometry is related.

----., Theories of Parallelism

Cambridge: University Press 1910 \$.90

R.G.L.: H.S.

Source: 18

On various methods of treating parallelism we find here one of the best works in English

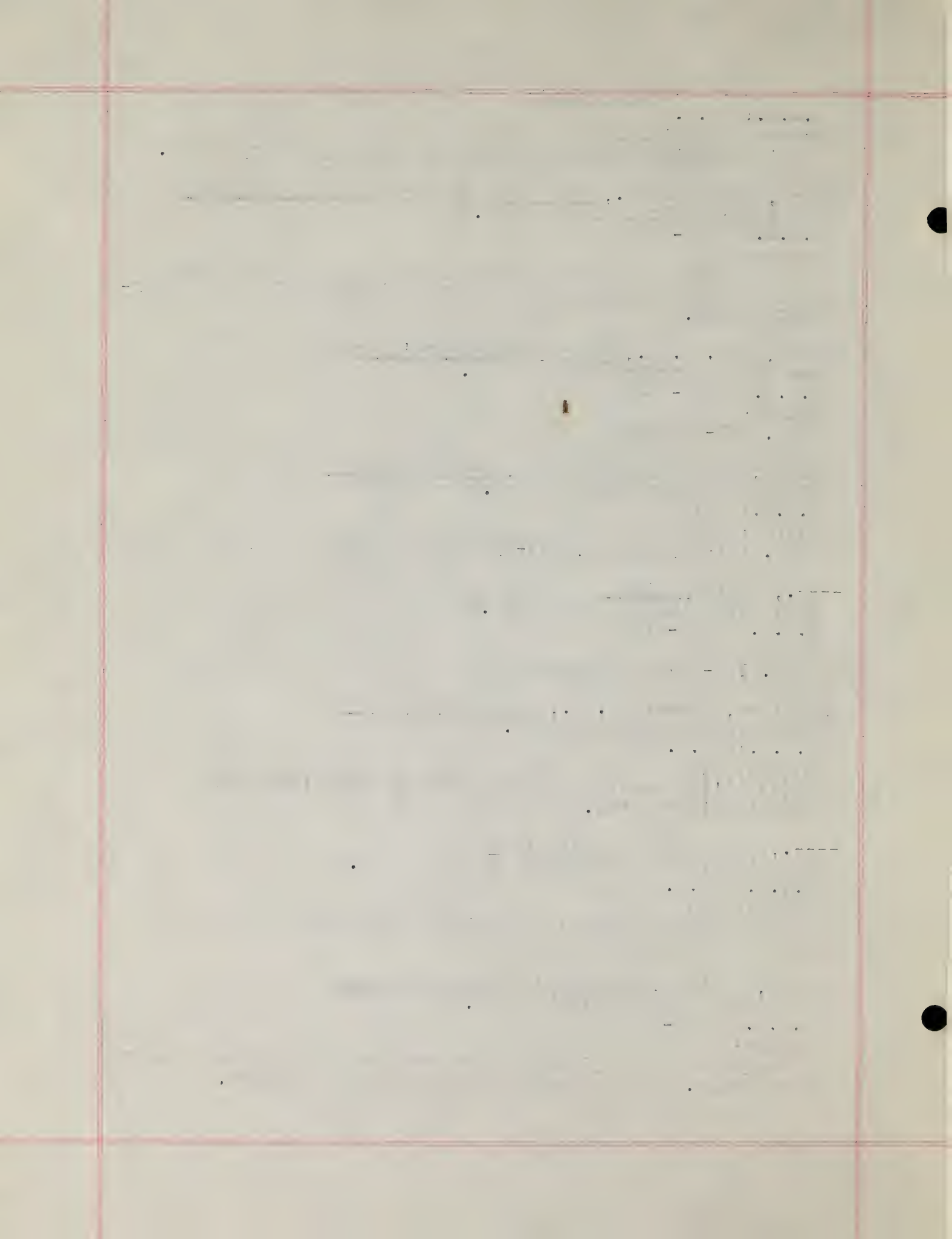
Fraser, Chelsea, The Model Aircraft Builder

New York: Crowell 1931 \$2.50

R.G.L.: VI - IX

Source: 29

Suggestions are given for constructing aircraft of almost every kind. Diagrams and photographs are included.



Fraser, Phyllis and Paflin, Roberta, This Little Piggy and Other Counting Rhymes

New York: Simon 1942 \$.25

R.G.L.: II

Source: 80,86

The counting rhymes were compiled by Phyllis Fraser and illustrations were drawn by Roberta Paflin.

Frasier, George Willard, How and Why Experimenters

New York: Singer 1939 \$1.16

R.G.L.: V - VII

Source: 23

Pp. 166-173 air pressure, 180-183 barometers

-----, and Dolman, Helen, Seasons Pass

New York: Singer 1938 \$.96

R.G.L.: III

Source: 25

Pp. 196-199 grocery, 119-121 thermometers

-----, Through the Year

New York: Singer 1937 \$.72

R.G.L.: I - II

Source: 25

Pp. 79-81 thermometers

-----, Winter Comes and Goes

: Singer 1938 \$.96

R.G.L.: II - III

Source: 25

Pp. 73-75, 119-121 thermometers

Freeman, May and Freeman, Ira, Fun With Figures

New York: Random House 1946 \$1.25

R.G.L.: H.S.

Source: 5,28,35,39,40,41,53,59,61,74

In these pages you will become acquainted with some of the facts and uses of geometry by making drawings and cut outs and other activities.

Freeman, Ruth and Freeman Harrop, Chips and Little Chips

Chicago: Whitman 1940 \$.90

R.G.L.: I - III

Source: 72

Distance, measurement, and size are treated in this book. Chips is a carpenter who builds a house for Little Chips.

Friskey, Margaret, Chicken Little Count to Ten

Chicago: Children's Press 1946 \$1.00

R.G.L.: I - II

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Source: 40,59,78

This is a counting book for grades one and two. It is made interesting by colorful illustrations.

-----, Surprise on Wheels

Chicago: Whitman 1940 \$1.00

R.G.L.: P.S.

Source: 25

Carpentry stories are told throughout the book.

Fry, Margaret, Man and His Customs

Chicago: Follett 1934 \$.88

R.G.L.: V - VII

Source: 23

Pp. 29-32 money, 33-34 weights and measures

Fry, Thornton C., Fundamental Concepts in the Theory of Probability

New York: American Mathematics Monthly 1934 Consult Library files

R.G.L.: H.S.

Source: 18

The basis for the theory of probability is treated in this article.

Gail, Otto Willi, Romping Through Physics

New York: Knopf 1934 \$1.50

R.G.L.: V - VII

Source: 23

Pp. 7-12 air pressure, 32-7, 47-51, 56-64 weights and measures.

Galois Institute of Mathematics, Eighteen Pamphlets

New York: 300 Pearl Street 1939 \$.25 each

R.G.L.: H.S.

Source: 18

These lectures were given at the institute for students of Junior College and High School level.

Garber, P. E., Building and Flying Model Aircraft

New York: Ronald Press 1928 \$2.25

R.G.L.: VI - IX

Source: II

Reliable designs are displayed for making models for the outstanding types of aeroplanes and balloons.

Gardner, M. and Murtland, C., Industrial Arithmetic for Girls

Boston: Heath 1910 \$1.00

R.G.L.: H.S. and C.

Source: 15

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This book contains numerous simple problems in arithmetic applied to millinery, sewing, and novelty work.

Garrison, Charlotte Gano, Science Experiences for Little Children

New York: Scribner 1939 \$1.50

R.G.L.: T

Source: 25

Pp. 87-88 thermometers, 89-90 weights and measures.

Gates, Arthur Irving and others, Down Our Street

New York: Macmillan 1939 \$.92

R.G.L.: I

Source: 25

Pp. 146-151 carpentry, 152-153, 156-159 grocery, 160-162 playing store

-----, Fun With Nick and Dick

New York: Macmillan 1936 \$.76

R.G.L.: I

Source: 25,27

Pp. 59-65 a pet store

-----, Good Time on Our Street

New York: Macmillan 1945 \$1.04

R.G.L.: I - II

Source: 26

Pp. 156-163 grocery store, 164-166 playing store

-----, Nick and Dick

New York: Macmillan 1937 \$.80

R.G.L.: II - III

Source: 25,27

Pp. 20-27 grocery stores, 100-103, 120-125 markets in Mexico, 36-45 toy store

-----, On Longer Trails

New York: Macmillan 1945 \$1.20

R.G.L.: III

Source: 26

Pp. 33-43 shopping stories

-----, Peter and Peggy

New York: Macmillan 1930 \$.60

R.G.L.: P

Source: 27

Pp. 68, 76-88 stores

-----, Wide Wings

New York: Macmillan 1939 \$1.04

R.G.L.: III

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Source: 25

Pp. 33-44 shopping

Gay, Zhenya and Jan, Pancho and His Burro

New York: Morrow 1930 \$2.00

R.G.L.: P.S.

Source: 25

Markets are discussed in various pages throughout the book.

Gay, Zhenya and Crespi, P., Manuelito of Costa Rica

New York: Messner 1940 \$1.50

R.G.L.: IV - V and P

Source: 24

Markets of Costa Rica are discussed in this book.

Gecks, Mathilde Cecilia, Friends to Make

New York: Johnson 1928 \$.56

R.G.L.: I

Source: 27

Pp. 106-109 stores

Gehres, Mrs. Ethel H. M., Every Day Life, Primer

Chicago: Winston 1935 \$.56

R.G.L.: P

Source: 25

Pp. 99-109 shoe stores

----., Every Day Life, Book One

Chicago: Winston 1936 \$.32

R.G.L.: I

Source: 27

Grocery stores and meat markets are discussed in this book.

----., Every Day Life, Book Two

Chicago: Winston 1938 \$.76

R.G.L.: II

Source: 25

Pp. 158-159 carpentry, 103-122 grocery stores and meat markets

----., Tots and Toys

Chicago: Winston 1936 \$.20

R.G.L.: PP

Source: 27

Pp. 8-15 pet stores, 45-52 toy stores

Gemmill, Mrs. Jane Brown, Joan Wanted A Kitty

Chicago: Winston 1937 \$2.00

R.G.L.: S.C.

Source: 25

Pp. 19-24 shopping

Gentles, Mrs. Harry W. and Betts, G. H., Habits for Safety
 New York: Bobbs 1937 \$.67
 R.G.L.: V - VII
 Source: 23
 Pp. Pl3, 73-77 graphs

Georges, Joel S. and Kinney, Jacob M., Introductory Mathematical Analysis
 New York: Macmillan 1938 \$3.30
 R.G.L.: C
 Source: 30
 This book covers the essentials of college algebra, trigonometry, plane analytic geometry, solid analytic geometry and an introduction to the calculus.

Gere, Frances Kent, Once Upon A Time In Egypt
 New York: Longsman 1937 \$2.00
 R.G.L.: V - VII and P
 Source: 23
 Pp. 41-44 ancient markets in Egypt

Gibson, Walter B., Brain Tests or Your Brains, If Any
 Boston: Page 1930 \$1.50
 R.G.L.: H.S. and C.
 Source: 6,84
 Adaptations of intelligence tests used in schools and colleges are presented here.

Gibson, Joseph E. and Merivether, Lida T., Safety for the Little Citizen
 Atlanta: Smith, T. E. 1939 \$.80
 R.G.L.: I - II
 Source: 25
 Pp. 11-13, 28-32 carpentry

Gilbert, A. C., Weather Bureau for Boys
 New Haven: Gilbert 1920 \$1.00
 R.G.L.: VII - XII
 Source: 28
 Weather instruments and maps are discussed.

Girl Scouts, Girl Scout Handbook
 New York: Girl Scouts 1933 \$1.00
 R.G.L.: VII - VIII
 Source: 4
 Pp. 75-103 signals and signaling

Gleeson, Margaret, How Big
 Philadelphia: McKay 1945 \$.75
 R.G.L.: I - III

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Goetz, D., Panchita, A Little Girl of Guatemala

Boston: Heath 1941 \$.40

R.G.L.: III - V

Source: 24

Pp. 5-49 markets of Guatemala

Gordon, Bertha Frances, Prove It Yourself

New York: Owen 1928 \$1.50

R.G.L.: VI - VIII

Source: 4, 23

Pp. 226-229 clocks, 246-249 signaling, 7-8 thermometers

Gordon, Dorothy, Ti li-re li: Come to France

New York: American Book 1939 \$.72

R.G.L.: IV - VI

Source: 23

Pp. 106-107 markets, 36-37 money

----., and Loftus, J. J., Knowing the Netherlands

New York: American Book 1940 \$.80

R.G.L.: IV - V

Source: 24

Pp. 92-99, 161-164 markets of the Netherlands

Gould, Ralph Ernest, Yankee Storekeeper

New York: McGraw 1946 \$2.50

R.G.L.: H.S. and C.

Source: 58

A Maine storekeeper, who later branched out to become the town undertaker and still later to sell gasoline, reminisces. The breath of life to him is good trade and the book is full of stories of swapping.

Gow, James, Short History of Greek Mathematics

New York: Stechert 1923 \$4.00

R.G.L.: H.S.

Source: 18

Included here is the history of mathematics taught in the public schools of Greece. Nomenclature and all manner of mathematical symbols are fully treated. The history of mathematical science is given as far back as Newton's time.

----., Time

Chicago: Gruen Watch 1939 gratis

R.G.L.: H.S.

Source: 18

A short history of the division of time is given.

Grady, William Edward, Children Near and Far

New York: Scribner 1934 \$.76

R.G.L.: III

1. The first part of the paper discusses the importance of the study and the objectives of the research.

2. The second part of the paper describes the methodology used in the study and the data collection process.

3. The third part of the paper presents the results of the study and discusses the findings in detail.

4. The fourth part of the paper discusses the implications of the study and the conclusions drawn from the research.

5. The fifth part of the paper discusses the limitations of the study and the areas for future research.

6. The sixth part of the paper discusses the significance of the study and the contribution it makes to the field.

7. The seventh part of the paper discusses the practical applications of the study and the recommendations for practice.

8. The eighth part of the paper discusses the ethical considerations of the study and the measures taken to ensure ethical standards.

9. The ninth part of the paper discusses the funding of the study and the acknowledgments to the funders.

10. The tenth part of the paper discusses the references and the sources used in the study.

Source: 27

Pp. 194-201 clock stories, 13-14 shopping for lumber and nails

-----., and others, Good Friends

New York: Scribner 1939 \$.68

R.G.L.: P

Source: 25

Pp. 36-37 grocery stores, 40-70 pet stores

-----., Good Times

New York: Scribner 1939 \$.72

R.G.L.: I

Source: 25

Pp. 12-17 shopping

-----., New Stories of Life and Adventure

New York: Scribner 1938 \$.88

R.G.L.: VI - VIII

Source: 23

Pp. 204-224 business

-----., New Stories of Today and Yesterday

New York: Scribner 1938 \$.88

R.G.L.: V - VII

Source: 23

Pp. 254-263 markets, 471 time, 22-30 engineering

-----., Pets and Playtimes

New York: Scribner 1932 \$.56

R.G.L.: P

Source: 27

Pp. 22-74 pet store

-----., Stories for Everyday

New York: Scribner 1939 \$.80

R.G.L.: II

Source: 25

Pp. 170, 182-183 carpentry, 139-152 earning money, 16-22 grocery stores

Graham, Frank D., Banking: How It Serves Us

New York: Newson 1937 \$.80

R.G.L.: VI - VIII

Source: 7, 61

Many questions of practical importance are discussed and a brief history of banking is given.

-----., Money: What It Is and What It Does

New York: Newson 1936 \$.80

R.G.L.: VI - VIII

For the purpose of this study, the following data were collected:

1. The first group of data was collected from the first group of subjects, who were given the first set of instructions.

2. The second group of data was collected from the second group of subjects, who were given the second set of instructions.

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6. The sixth group of data was collected from the sixth group of subjects, who were given the sixth set of instructions.

7. The seventh group of data was collected from the seventh group of subjects, who were given the seventh set of instructions.

8. The eighth group of data was collected from the eighth group of subjects, who were given the eighth set of instructions.

Source: 7, 61

How Canada mints its coinage can be found in this book.

-----., Planning and Paying for Full Employment

Princeton, N. J.: Princeton University Press 1946 \$3.00

R.G.L.: H.S. and C.

Source: Publisher

The authors of this symposium set themselves the task of providing a solution which would, at all times, assure full employment with a minimum of governmental intervention.

Graham, Frederick and Cleveland Reginald (editors), The Model Plane Annual

New York: McBride 1941 \$2.00

R.G.L.: H.S.

Source: 5

In this book is included the history of model planes, designs, materials, engines, and scale drawings.

Grant, Maude Margaret, Windmills and Wooden Shoes

Nashville: Southern 1920 \$.72

R.G.L.: II - III

Source: 27

Pp. 106-107 markets in the Netherlands

Gray, M. and Urban, R. C., Bright Idea Book

New York: Dutton 1942 \$2.50

R.G.L.: V - VII

Source: 23

Pp. 87-122 earning money

-----., and others, Friends and Neighbors

New York: Scott 1941 \$.92

R.G.L.: II

Source: 25

Pp. 17-26, 48-51 toy stores

Gray, William Scott, Fun With Dick and Jane

New York: Scott 1940 \$.72

R.G.L.: P

Source: 25, 35, 57

Pp. 34-38 counting

-----., and others, More Friends and Neighbors

New York: Scott 1941 \$.92

R.G.L.: II - III

Source: 25

Pp. 196-202 earning money, 154-159 telling time

-----., More Streets and Roads

New York: Scott 1942 \$1.00

R.G.L.: III
 Source: 25
 Pp. 37-44 department stores

----., Our New Friends

New York: Scott 1941 \$.84

R.G.L.: I

Source: 25

Pp. 67, 72-74 carpentry, 133-138 playing store, 48-51
 telling time

----., Streets and Roads

New York: Scott 1941 \$.84

R.G.L.: III

Source: 25

Pp. 31-37 department stores

Greenstreet, W. J., (editor) Isaac Newton 1642-1727

London: Bell 1927 10S, 6d

R.G.L.: H.S. and C.

Source: 7

Here we find a volume of Newton's essays written by
 various authors. Also this book contains a transcription of
 a notebook that Newton wrote when he was a boy.

Gruenberg, Mrs. S. M., Favorite Stories Old and New

New York: Doubleday 1942 \$2.50

R.G.L.: T

Source: 26

Pp. 65-70 money, 359-363 stores

Gunther, R. T., Early Science in Oxford

New York: Oxford University Press 1922 \$3.50

R.G.L.: H.S.

Source: 7

Part II deals with mathematics. A very interesting account
 is given of early English mathematics with extensive notes
 on mathematical instruments.

----., Historical Instruments for the Advancement of Science

N New York: Oxford University Press 1925 \$.85

R.G.L.: H.S. and C.

Source: 7

A very interesting account is given of instruments of
 various types especially those for surveying.

Hadamard, J. S., Essay on the Psychology of Invention in the
 Mathematical Field

Princeton, N. J.: Princeton University Press 1945 \$2.00

R.G.L.: C.

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we consider the case of a single particle.

3. The third part is devoted to the case of a system of particles.

4. In the fourth part, we consider the case of a continuous medium.

5. The fifth part is devoted to the case of a system of continuous media.

6. In the sixth part, we consider the case of a single continuous medium.

7. The seventh part is devoted to the case of a system of continuous media.

8. In the eighth part, we consider the case of a single continuous medium.

9. The ninth part is devoted to the case of a system of continuous media.

10. In the tenth part, we consider the case of a single continuous medium.

11. The eleventh part is devoted to the case of a system of continuous media.

12. In the twelfth part, we consider the case of a single continuous medium.

13. The thirteenth part is devoted to the case of a system of continuous media.

14. In the fourteenth part, we consider the case of a single continuous medium.

Source: 28

This is a very scholarly essay written by an outstanding mathematician. It deals with the creative mental processes involved in scientific discovery and invention.

Hader, Mrs. Bertha Hoerner, Jamaica Johnny

Boston: Houghton

R.G.L.: IV - VI

Source: 23

Pp. 35-43 markets in Jamaica

Hahn, Julia Letheld, Everyday Friends

Boston: Houghton 1935 \$.64

R.G.L.: P and I

Source: 27

Pp. 32-43 grocery stores, 145-146 playing store

-----, Finding Friends

Boston: Houghton 1939 \$.84

R.G.L.: I

Source: 25

Pp. 128-129 playing store

-----, Reading for Fun

Boston: Houghton 1939 \$.68

R.G.L.: P

Source: 25

Pp. 62-68 carpentry, 32-43 grocery stores

Haliday, George Vincent and Swanson, William Elmer, Ship Repair and Alteration

New York: Cornell Maritime Press 1942

R.G.L.: H.S. and C.

Source: 2

This handbook was written by shipfitters for shipfitters. It is valuable to the average fitter, to helpers, apprentices, and others.

Hall, Albert Neely, Carpentry and Mechanics for Boys

New York: Lothrop 1929 \$2.50

R.G.L.: VI - VIII

Source: 4

In this book is found models for aircraft, seacraft, and gardencraft.

-----, Craft Work-and-Play Things

Chicago: Lippincott 1936 \$2.50

R.G.L.: H

Source: 23

Handicraft in carpentry is discussed throughout the book.

-----., Handicraft for Handy Boys

New York: Lothrop 1913 \$2.50

R.G.L.: VI - VIII

Source: 4,19

Practical plans are drawn for work and play with many ideas for making money.

-----., Home Handicraft for Boys

Chicago: Lippincott 1935 \$2.00

R.G.L.: VII - VIII

Source: 4,5

Diagrams and directions are given for making garden gadgets and model airplanes.

-----., Home Made Games and Game Equipment

New York: Lothrop 1923 \$2.50

R.G.L.: V - VIII

Source: 4

Indoor and outdoor games are explained and instructions for making equipment is given.

Hall, Alton L., The New Assistant

Pottsville: Metric Association 1922 \$.10

R.G.L.: H.S.

Source: 18

This play deals with the advances of the metric system and countries that have adopted it. It requires ten to fifteen characters and has ten speaking parts.

Hall, Charles Gilbert, Mail Comes Through

New York: Macmillan 1938 \$1.32

R.G.L.: V - VIII

Source: 23

Pp. 97-98 money, 100-102 parcel post

-----., Through By Rail

New York: Macmillan 1938 \$1.32

R.G.L.: VI - VIII

Source: 23

Pp. 97-103 signals and signaling

Halleck, Reuben Post and Frantz, Juliette, Makers of our Nation

New York: American Book 1929 \$.96

R.G.L.: V - VII

Source: 23

Pp. 5-14, 21-24 taxation

Halliburton, R., Royal Road to Romance

New York: Bobbs 1925 \$5.00

R.G.L.: H.S.

THE FIRST PART OF THE HISTORY OF THE
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Source: 2,28

The possibility of rollicking through Europe on seventy-five dollars is considered in this book.

Hambidge, Jay, Dynamic Symmetry

New York: Yale University Press 1923 \$3.00

R.G.L.: H.S.

Source: 18

The book tells about Greek art and design and explains some of the principles used.

Hamilton, Edwin T., The Boy Builder

New York: Dodd 1933 \$2.50

R.G.L.: IV - XII

Source: 5

Explanations and use of the hammer, ruler, saw, plane, work gauge, chisel, brace, compass, and other instruments are clearly given.

Hanna, Paul Robert, Centerville

New York: Scott 1938 \$1.00

R.G.L.: III

Source: 25

Pp. 80-84 advertising, 193-226 architecture, 180 earning money, 245-248 hardware stores, 98-121 wholesale houses

----., and others, David's Friends at School

New York: Scott 1938 \$.80

R.G.L.: I

Source: 25

Pp. 72-79 grocery stores

----., Peter's Family

New York: Scott 1935 \$.60

R.G.L.: P

Source: 27

Pp. 40-43 shoe stores

----., Without Machinery

New York: Scott 1939 \$.92

R.G.L.: IV - VI

Source: 23

Pp. 126-131 markets, 227-229, 241-243, 265-268 trading posts

Hardy, Godfrey Harold, A Mathematician's Apology

New York: Macmillan 1940 \$1.00

R.G.L.: H.S.

Source: 28

The author tells the reader why mathematics is serious and beautiful. He concludes that a mathematicians life is justified because he has added something to knowledge and helped

1. The first part of the report deals with the general situation of the country and the position of the various groups.

2. The second part of the report deals with the economic situation and the position of the various groups.

3. The third part of the report deals with the social situation and the position of the various groups.

4. The fourth part of the report deals with the political situation and the position of the various groups.

5. The fifth part of the report deals with the cultural situation and the position of the various groups.

6. The sixth part of the report deals with the international situation and the position of the various groups.

7. The seventh part of the report deals with the future of the country and the position of the various groups.

8. The eighth part of the report deals with the conclusion of the report and the position of the various groups.

9. The ninth part of the report deals with the appendix and the position of the various groups.

10. The tenth part of the report deals with the bibliography and the position of the various groups.

11. The eleventh part of the report deals with the index and the position of the various groups.

12. The twelfth part of the report deals with the conclusion of the report and the position of the various groups.

others to add more, and these somethings compare with contributions in other fields.

----., and Edward Maitland, An Introduction to the Theory of Numbers

New York: Oxford 1939 \$8.00

R.G.L.: H.S. and C.

Although this book was written for mathematicians, it does not demand any great mathematical knowledge or technique. The first eighteen chapters are comparatively easy. The last six are more difficult.

----., Some Famous Problems in the Theory of Numbers

New York: Clarendon 1920

R.G.L.: H.S.

Source: 18

This inaugural lecture delivered before the University of Oxford stresses Waring's problems in particular.

Hardy, Marjorie, New Stories

Chicago: Wheeler 1926 \$.76

R.G.L.: II

Source: 27

Pp. 135-137 stores

----., Sally and Billy in Winter

Chicago: Wheeler 1933 \$.32

R.G.L.: PP

Source: 27

Pp. 31-34 grocery stores, 10-15 shopping

Hardy, Rose L., and Hecox, Geneva Johnston, Helpers

New York: Newson 1931 \$.80

R.G.L.: I

Source: 27

Pp. 114-128 markets, 86-87 toy stores

Harney, Laura B., Skycraft Book

Boston: Heath 1932 \$1.08

R.G.L.: VI - VIII

Source: 23

Pp. 167-169 air pressure

Harper, H. D., Carpentry Shop Mathematics

New York: Van Nostrand 1941 \$1.50

R.G.L.: H.S.

Source: 2

Mathematics needed for successful carpentry is treated here.

----., Electrical Shop Mathematics

New York: Van Nostrand 1940 \$1.50

R.G.L.: H.S.

Source: 2

Mathematics required for the electrical trade is explained.

----., Plumbing, Heating, and Air Conditioning, Shop Mathematics

New York: Van Nostrand 1942

R.G.L.: H.S.

Source: 2

Mathematics needed for plumbing, heating, and air conditioning is explained.

Harris, Ada Van Stone and Waldo, Lillian M., Number Games

Chicago: Beckley 1946 \$1.10

R.G.L.: I - VI

Source: 28

Here we find fifty-eight number games designed to create an active interest in numbers and to make the child skillful. This is applied directly and naturally through the make-believe element.

Harris, Mrs. Florence LaGanke, Let's Study Foods

Boston: Little 1941 \$1.68

R.G.L.: VI - VIII

Source: 23, 35, 69, 75

Pp. 38-42 budgets, 278-283 weights and measures

Harris, Julia M., Making Visits

Boston: Houghton 1939 \$.92

R.G.L.: II

Source: 25

Pp. 156-160 clocks

Harrison, George Russell, Atoms in Action

New York: Garden City 1941 \$4.50

R.G.L.: H.S.

Source: 28

It is not necessary to read every chapter of this book to learn of the wonderful discoveries made by modern physicists. It is told in a manner highly interesting and entertaining to everyone.

Harrison, L. C., Daylight, Twilight, Darkness, and Time

New York: Silver 1935 \$1.24

R.G.L.: H.S.

Source:

We find in this book sixty puzzles, a brief discussion of time, and the data for locating the celestial bodies from the earth.

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Hart, Ivor B., Makers of Science: Mathematics, Physics, Astronomy

New York: Oxford 1924 \$2.00

R.G.L.: H.S. and C.

Source: 12,18

This popularly written history deals with several phases of Greek science.

Hartman, Gertrude, Machines and the Men Who Made the World of Industry

New York: Macmillan 1939 \$2.50

R.G.L.: VI - VIII

Source: 23

Pp. 245-260 business, 256-260 business depression, 35-47 factory system, 243,257,259,272 graphs

Hartswick, F. Gregory, Tangram Book: Adventures of the Beautiful Princess in Triangle Land

New York: Simon 1925 \$2.50

R.G.L.: H.S.

Source: 12

This first tangram book contains Chinese puzzles.

Hatton, Caroline and Smith, Doris, Falling in Love With Plain Geometry

Menasha: Mathematics Teacher 1927 Consult library files

R.G.L.: H.S.

Source: 17

The authors have very cleverly written this play forming proper names from a mathematical vocabulary. A love story along with mathematical are woven into this play.

Hawks, Ellison, The Boys Book of Remarkable Machinery

New York: Dodd 1942 \$2.50

R.G.L.: H.S.

Source: II

The construction and use of much interesting modern machinery is described. The book is well illustrated.

Hay, Ella H., Happy Days on the Farm

Chicago: Beckley 1941 \$.80

R.G.L.: II - III

Source: 25

Pp. 40-43 shopping

----., and Dudley, D. R., Our Home and Our World

Chicago: Beckley 1943 \$1.24

R.G.L.: III

Source: 26

Pp. 215-216 banks, 99-103 fairs, 245 restaurants and lunch rooms

THE UNITED STATES OF AMERICA

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

WASH. D.C. 20250

TO: DIRECTOR, BUREAU OF LAND MANAGEMENT

FROM: SAC, [illegible]

SUBJECT: [illegible]

RE: [illegible]

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Hayes, Ina M., Numberland

Boston: Heath 1940 \$1.40

R.G.L.: III - V

Source: 78

In an interesting way this story for little folks helps to develop their number sense.

Hayes, Marjorie, Wampum and Sixpence

Boston: Little 1936 \$1.75

R.G.L.: V - VII

Source: 23

Pp. 219-222 wampum

Haywood, Carolyn, Back to School with Petsy

New York: Harcourt 1943 \$2.00

R.G.L.: S.C.

Source: 26

Pp. 38-55 shopping stories

----., Two and Two are Four

New York: Harcourt 1940 \$2.00

R.G.L.: S.C.

Source: 25

The experiences of two little boys and two little girls are told in this book.

----., Here's A Penny

New York: Harcourt 1944 \$2.00

R.G.L.: S.C.

Source: 26

Pp. 94-111 earning money

Heal, Edith, The Golden Bowl

New York: Lothrop 1946 \$1.50

R.G.L.: I - V

Source: Publisher

Little Marie goes each Saturday to help Old Peter in the restaurant. Finally Old Peter finds it necessary to close the restaurant because he is not making enough money.

Heald, H. V., Mathematical Puzzles and Problems

Washington, D. C.: Information Bureau 1938 \$.10

R.G.L.: H.S.

Source: 7

A number of interesting puzzle problems are presented with their solutions. Notes are given on the value of π (pi) and the duplication of the cube.

Heath, Royal V., Mathemagic

New York: Simon 1933 \$1.75

R.G.L.: H.S.

Source: 7,8,12,18,33,36,37,44,72,84

All sorts of games, puzzles, tricks, and fun with figures can be found in this book.

Heath, Sir Thomas, Archimedes

New York: Macmillan 1920 \$.80

R.G.L.: H.S. and C.

Source: 7

This popular account of the life and works of Archimedes is prefaced by a discussion of Greek geometry before his day.

----., Aristarchus of Samos, the Ancient Copernicus

New York: Oxford 1913 \$6.00

R.G.L.: H.S. and C.

Source: 7

This history of Greek astronomy also contains Aristarchus treatise on the size and distances of the sun and moon.

----., History of Greek Mathematics

New York: Clarendon 1921 \$16.70 (2 vol.)

R.G.L.: H.S. and C.

Source: 15,18,22

Here we find a standard authority on the history of Greek mathematics. It shows how Euclid's textbook was used in the United States. Volume one treats from Thales to Euclid; volume two, from Aristarchus to Diophantus.

----., Manual of Greek Mathematics

New York: Oxford 1931 \$5.00

R.G.L.: H.S.

Source: 7,17

One of the best single references on the history of Greek mathematics can be found in this book if a general view is desired.

----., The Copernicus of Antiquity

New York: Macmillan 1920 \$.80

R.G.L.: H.S. and C.

Source: 7

This account of Greek astronomy culminates with the work of Aristarchus who adopted the heliocentric hypothesis in the third century B.C.

----., The Thirteen Books of Euclid

London: Cambridge Press 1926 L3 3sh

R.G.L.: H.S. and C.

Source: 13

From an historical and scientific standpoint, all the

definitions, axioms, postulates, and propositions found in Euclid's "Elements" are discussed.

Hedges, Blanche B., Alice in Numberland

Menasha: Mathematics Teacher 1933 Consult library files

R.G.L.: H.S.

Source: Publisher

This play is suitable for a geometry or a trigonometry class and is based on four raised to the fourth power.

Hedrick, E. and Van Noy, K., Kites and Kimonos

New York: Macmillan 1936 \$.84

R.G.L.: III

Source: 25,27

Pp. 133-151 shopping

Heffernan, Helen and others, All Aboard for Storyland

New York: Sanborn 1941 \$1.12

R.G.L.: III

Source: 25

Pp. 61-62 carpentry, 238-239 clocks, 216-226 earning money, 136-141 markets

----., Broad Road

Chicago: Lyons 1939 \$.48

R.G.L.: P

Source: 25

Pp. 25-31 playing store

Heiberg, Johan L. and MacGregor, D. C., (translators)

Mathematics and the Physical Science in Classical Antiquity

New York: Oxford 1922 \$1.00

R.G.L.: H.S. and C.

Source: 7,12,18

This book contains short readable accounts of mathematics in Greece and Rome and some interesting notes on the history of medicine.

Heile, Maryanna, World's Moods

Chicago: Follett 1930 \$.88

R.G.L.: IV - V

Source: 23

Pp. 101-102 barometers, 99-101 thermometers

Henley, N. W., Twentieth Century Book of Formula's Processes, and Trade Secrets

New York: Henley 1945 \$4.00

R.G.L.: H.S.

Source: Publisher

Nearly ten-thousand formulas are given in this book. This is a wealth of practical knowledge and guidance.

Henry, Robert Selph, Trains

New York: Bobbs 1938 \$1.75

R.G.L.: VI - VIII and P

Source: 23

Pp. 49-51 signaling

Hepburn, A. B., History of Currency in the United States

New York: Macmillan 1924 \$3.00

R.G.L.: H.S. and C.

Source: 7

This is a standard history of currency in the United States to 1923. It has a supplement recording events since 1923.

Hibben, Thomas, The Carpenter's Tool Chest

Chicago: Lippincott 1933 \$2.00

R.G.L.: V - VII

Source: 9

How ancient craftsmen were paid is told here. Also is discussed the levels, squares, and measuring tools of the Egyptians.

Hildreth, Gertrude Howell, Faraway Ports

Chicago: Winston 1940 \$1.00

R.G.L.: III

Source: 25

Pp. 215-217 markets

Hill, Howard Copeland, Life and Work of the Citizen

New York: Ginn 1935 \$1.64

R.G.L.: VIII

Source: 4

Pp. 579-601 saving and thrift

Hill, Helen and Maxwell, Violet, Little Tonino

New York: Macmillan 1928 \$2.00

R.G.L.: V - VI

Source: 23

Pp. 35-55 markets

Hills, Verna, Here Comes Peter

New York: Lothrop 1935 \$1.50

R.G.L.: S

Source: 25

Clocks are discussed throughout this book.

----., Martin and Judy in Sunshine and Rain

Boston: Beacon 1940 \$1.50

R.G.L.: T

Source: 25

Pp. 9-12 money, 9-12, 29-32 shopping

1. The first part of the paper is devoted to a general discussion of the problem.

2. The second part is devoted to a detailed analysis of the case of a single particle.

3. The third part is devoted to a detailed analysis of the case of a system of particles.

4. The fourth part is devoted to a detailed analysis of the case of a system of particles.

5. The fifth part is devoted to a detailed analysis of the case of a system of particles.

6. The sixth part is devoted to a detailed analysis of the case of a system of particles.

7. The seventh part is devoted to a detailed analysis of the case of a system of particles.

8. The eighth part is devoted to a detailed analysis of the case of a system of particles.

9. The ninth part is devoted to a detailed analysis of the case of a system of particles.

10. The tenth part is devoted to a detailed analysis of the case of a system of particles.

11. The eleventh part is devoted to a detailed analysis of the case of a system of particles.

12. The twelfth part is devoted to a detailed analysis of the case of a system of particles.

----., Martin and Judy in Their Two Little Houses

Boston: Beacon 1939 \$1.50

R.G.L.: T

Source: 25

Pp. 21-24 weights and measures

----., Martin and Judy Playing and Learning

Boston: Beacon 1943 \$1.50

R.G.L.: T

Source: 26

Pp. 81-84 money

Hillyer, Virgil Mores and Huey, Edward Greene, Child's History of Art

New York: Appleton 1933 \$3.50

R.G.L.: V - VIII

Source: 23,69

Pp. 239-241 postage stamps

----., Child's History of the World

New York: Appleton 1935 \$1.32

R.G.L.: VI - VIII

Source: 23,35

Pp. 251-252 numbers

Hine, L. W., Men At Work

New York: Macmillan 1932 \$1.75

R.G.L.: IV

Source: 29

A dramatic and graphic account is made of the courage and dignity of skilled workers.

Hinton, Charles Howard, An Episode of Flatland

London: Swann 1906 5S

R.G.L.: L.S.

Source: 18

Here we find a discussion of the fourth dimension.

----., Fourth Dimension

London: Swann 1904 30S

R.G.L.: H.S.

Source: 18

An endeavor is made to present the subject of the higher dimensionality of space in a clear manner devoid of mathematical subtleties and technicalities.

----., New Era of Thought

London: Swann 1888 5S

R.G.L.: H.S.

Source: 18

The task at first was to obtain a sense of the higher

1. Introduction

2. Methodology

3. Results

4. Discussion

5. Conclusion

6. References

7. Appendix

8. Index

9. Summary

space but as the book proceeds the task is that of obtaining a familiarity with higher matter which shall be an intuitive to the mind as that of ordinary matter has become.

----., Scientific Romances

London: Swann 1906

R.G.L.: H.S.

Source: 18

This book discusses the education of the imagination. It also tells the story of many dimensions.

Hirst, F. W., Money: Gold, Silver, Paper

New York: Scribner 1934 \$2.00

R.G.L.: H.S.

Source: 7

A history of money from earliest times to 1933 is expressed with great clarity. Also we find a discussion of the present world monetary system.

Hobbs, G. M., MacLennan, M. and McKinney, J., Practical Mathematics

Chicago: American Technical 1932 \$2.00

R.G.L.: H.S.

Source: 20

Principles of arithmetic, equations, formulas, mensuration, graphs, logarithms are presented in step-by-step method.

Hobson, E. W., Squaring the Circle

New York: Putnam 1913 \$1.00

R.G.L.: H.S.

Source: 18, 22

An interesting account of this old problem is given and also its history.

Hogan, Irene G. and Hunter, William L., The Changeable Changeless Naught

Menasha: Mathematics Teacher 1926 Consult library files

R.G.L.: H.S.

Source: Publisher

Amusing verses are presented.

Hogben, Lancelot T., Mathematics for the Millions

New York: Norton 1937 \$3.75

R.G.L.: C.

Source: 7, 12, 20, 30, 33, 36, 38, 41, 46, 54, 57, 67, 68, 72, 76, 80, 85, 86, 89

The purpose of this book is to popularize mathematics. It stresses the historical and social aspects. It combines the history of various branches of mathematics with the topics discussed.

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RESEARCH REPORT

NO. 1000

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DEPARTMENT OF CHEMISTRY

Holbrook, Florence, Cave, Mound and Lake Dwellers

Boston: Heath 1911 \$.80

R.G.L.: IV - V

Source: 4

How the early people dressed, traveled, traded, and lived are told here.

Holdsworth, J. T., Money and Banking

New York: Appleton 1930 \$3.00

R.G.L.: H.S. and C.

Source: 7

United States finance is treated here. We also find maps, charts, and tables.

Holsted, G. B., Saccheri's Euclides Vindicatus

LaSalle: Open Court 1920 \$2.00

R.G.L.: A.S.

Source: 7

"In this geometric endeavor are established the foundation principles of universal geometry with special reference to Euclid's Parallel Postulates."

Hooker, Charles W. R., What is the Fourth Dimension

New York: Macmillan 1934 5S

R.G.L.: H.S.

Source: 18, 22

This little book is founded on a series of lectures on the fourth dimension. It is made simple enough to be interesting and intelligible to the man in the street.

Hooper, Alfred, A Mathematics Refresher

New York: Holt 1942 \$3.00

R.G.L.: H.S.

Source: 28

This book was first written for Royal Air Force Candidates. It includes a review of fundamental mathematics including problems and answers needed for aviation.

-----, River Mathematics

New York: Holt 1945 \$3.75

R.G.L.: IX - XII

Source: 20, 30, 31, 48, 49, 76

The object of this book is to trace in a simple way the development of mathematical ideas and processes from their insignificant source to the mighty flood on which now sail the proud ships Science, Engineering, and Aeronautics. The mighty river is explored not in minute detail but far enough to disclose the stages of growth of mathematical ideas and the slow and often painful steps by which men have developed such ways of expressing them.

[The text in this block is extremely faint and illegible. It appears to be a multi-paragraph document with several lines of text per paragraph. There are some faint markings that could be interpreted as bullet points or list items, but they cannot be transcribed accurately.]

Hooper, William, M. D., Rational Recreations
 London: Davis 1774 Consult Library files
 R.G.L.: H.S.
 Source: 2

Rational recreations, in which the principles of numbers and natural philosophy are clearly and copiously elucidated by a series of easy, entertaining, and interesting experiments and card games, can be found in this book.

Hopkins, Harry L., Spending to Save
 New York: Norton 1936 \$1.50
 R.G.L.: H.S.
 Source: 7

Here we find the story of what the government has done to relieve nation-wide unemployment and distress.

Hopper, V. F., Medieval Number Symbolism
 New York: Columbia University Press 1938 \$2.80
 R.G.L.: H.S.
 Source: 8

The sources of medieval number symbolism are recorded here along with its meaning and influence on thought and expression.

Horn, Ernest, Following New Trails
 New York: Ginn 1940 \$1.12
 R.G.L.: V - VI
 Source: 24,35
 Pp. 74-76, 158-160, 184-186 graphs

----., and Wickey, Rose, Making New Friends
 New York: Ginn 1940 \$.84
 Source: 25
 Pp. 170-180 telling time

----., and others, More Adventures
 New York: Ginn 1940 \$1.00
 R.G.L.: IV - V.
 Source: 24,35
 Pp. 81-85 graphs, 237-241 Roman Numerals, 65-67 telling time

----., People and Places
 New York: Ginn 1940 \$.92
 R.G.L.: III
 Source: 25,56,75
 Pp. 228-231 arithmetic, 66-69 calendars, 144-149, 186-191 signals and signaling, 192-193 time

-----., Reaching Our Goals

New York: Ginn 1940 \$1.20

R.G.L.: VI - VII

Source: 23,35,69

Pp. 201-210, 355-360 graphs, 76-89 numbers

-----., We Live In A City

New York: Ginn 1941 \$.72

R.G.L.: I

Source: 28

Pp. 60-69 stores, 157-168 department stores, 130-149 markets

Hornung, Clarence Pearson, Handbook of Designs and Devices-Geometry Elements

New York: Harpers 1932 \$4.00

R.G.L.: H.S.

Source: 8.18

Eighteen hundred and thirty-six geometric designs have been drawn by the author. This book contains decorative designs, geometrical drawings, and devices.

Horowitz, Mrs. C., Child's Treasury of Things To Do

New York: Hart 1945 \$2.50

R.G.L.: H.

Source: 26

Pp. 36-37 playing store

Howard, Mrs. Alice Woodbury, Princess Runs Away

New York: Macmillan 1934 \$1.50

R.G.L.: IV - VI

Source: 23,69

P. 10 arithmetic

Howard, Inez M., Hawthorne, A., and Howard, M. H., Number Friends

New York: Macmillan 1927 \$.80

R.G.L.: I - III

Source: Publisher, 27,35,78,80

Life situations in lunch rooms and restaurants are told in a humorous and interesting way.

Howard, Janet, Counting Katie

New York: Lothrop 1946 \$1.00

R.G.L.: PP - II

Source: Publisher

This little girl loved to count and counted nearly everyone and everything she saw. At her birthday party she counted all her presents.

Howe, George, Mathematics for the Practical Man

London: Lockwood 1931 6S

R.G.L.: H.S.

Source: 2

This book explains simply and quickly algebra, geometry, trigonometry, logarithms, and calculus and gives the answers to problems.

Hubbard, Eleanore, Citizenship Plays

New York: Sanborn 1922 \$1.00

R.G.L.: IV - VIII

Source: 4

The following saving and thrift plays can be found here: "Bankers Strategy," "Billy Bates' Bicycle," and "Salvage".

Hubbard, Elbert, Hypatia (Little Journeys to the Homes of Great Teachers)

New York: Roycrofters 1908 \$3.00

R.G.L.: H.S.

Source: 16

Here we find the life story of the woman mathematician who was immortalized by Charles Kingsley.

----., Pythagoras (Little Journeys to the Homes of Great Teachers)

New York: Roycrofters 1908 \$3.00

R.G.L.: H.S.

Source: 16

Some of the life history of this famous geographer is told: his trip to Egypt, his severe initiation at the hands of the Egyptians, his journey to southern Italy, the founding of Crotona, the Pythagorean school.

Huber, Mrs. Miriam Blanton, Cinder the Cat

New York: American Book 1931 \$.68

R.G.L.: I - II

Source: 25, 27

Toy store stories are found in this book.

----., Planes for Bob and Andy

New York: Macmillan 1943 \$1.12

R.G.L.: III

Source: 26

Pp. 207-252 fairs

----., Rusty Wants A Dog

New York: Macmillan 1943 \$.80

R.G.L.: II - III

Source: 25

Pp. 13-16 pet

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Huberman, Leo, We The People

New York: Harper 1932 \$2.50

R.G.L.: VII - IX

Source: 9

The economic history of the United States is given and the story of the struggle of the people in the United States to make a living through more than four-hundred years.

Hudson, Hilda P., Rulers and Compasses

New York: Longmans 1916 \$1.80

R.G.L.: H.S. and C.

Source: 18,22,76

Only superior students in high school should attempt to read this book. The uses of rulers and compasses in plane geometry is discussed.

Huey, Edward Greene, What Makes the Wheels Go Round

New York: Reynal 1940 \$2.50

R.G.L.: V - VIII

Source: 24

Pp. 33-34 barometers, 11-15 thermometers

Humiston, R. L., What Day Is It?

Menasha: School Science and Mathematics 1926 Consult Library files

R.G.L.: H.S.

Source: 7

Simple rules are given for finding the day of the week belonging to any given day in any given year.

Hurley, Mrs. Beatrice J. and Santorius, Ina C., School Boys of Long Ago

New York: Nelson 1935 \$.52

R.G.L.: V - VII

Source: 23,69

Pp. 42-43 arithmetic

James, Arthur, Time and Its Measurement

Chicago: Popular Mechanics 1909 Consult library files

R.G.L.: H.S.

Source: 18,22

A description is given of ancient and modern timepieces in popular style and accompanied by illustrations.

James, Glenn and James, R. C., Mathematics Dictionary

Washington, D. C.: Digest Press 1942 \$3.00

R.G.L.: H.S. and C.

Source: 6,54

Presented in this dictionary are basic words and topic phrases used in arithmetic, elementary algebra, plane and

solid geometry, trigonometry, and junior college mathematics.

Johnson, Constance, When Mother Lets Us Cook

New York: Dodd 1908 \$1.00

R.G.L.: IV - VI

Source: II

Fifty simple recipes are presented in this book with a view of economy and a child's diet. Most girls of ten years could understand and use it.

Johnson, George Ellsworth, Education by Plays and Games

New York: Ginn 1907 \$.90

R.G.L.: T

Source: 17

This book discusses the education of children which includes occupations and busy work.

Johnson, Gayford G., Stars for Children

New York: Macmillan 1934 \$1.50

R.G.L.: V - VII

Source: 23

Pp. 90-122 time

Johnson, J. F., We and Our Work

New York: American Viewpoint Society 1936 \$2.15

R.G.L.: VI - VIII

Source: 4

The importance of good work and the evolution of industry are correlated in this book. We find here drawings and pictorial charts.

Johnson, J. M., A Mathematical Question

Amherst, N. H.: Preston 1797 Consult library files

R.G.L.: H.S.

Source: 2

This story was written for the Pastor of a Baptist Church. As the story progresses it answers questions of religious nature.

Johnson, William Harding, Widening Trails

Chicago: Lyons 1939 \$.88

R.G.L.: IV - VI

Source: 23

Pp. 29-64 clocks, 301-340 engineering, 115-123 markets, 59-63 standard time

Johnson, Willis, Mathematical Geography

New York: American Book 1907 \$1.20

R.G.L.: H.S.

Source: 7,16,18

In this book we may find information about the form of the earth, the rotation of the earth, longitude and time, the calendar, seasons, tides, and historical sketches.

Jones, Hilton Ira, What Day Is It?

Menasha: School Science and Mathematics Consult library files

R.G.L.: H.S.

Source: Publisher, 7

Here we find a device to tell the day of the week on which a given day of a given month will fall.

Jones, Owen, Grammar of Ornament

London: Day 1856 Consult library files

R.G.L.: H.S.

Source: 18

The history of design, decoration, and ornament is given. Illustrations are made by various styles of ornament. One hundred folio plates are presented.

Jones, Samuel I., Mathematical Clubs and Recreations

Nashville: Jones 1940 \$2.75

R.G.L.: H.S.

Source: 36,54,84

This book contains mathematical recreations and puzzles with their solutions and a bibliography suitable for a mathematics club library.

----., Mathematical Nuts for Lovers of Mathematics

Nashville: Jones 1932 \$3.50

R.G.L.: H.S.

Source: 7,12,20,36,37,38,57,80,82,89

This companion to Mathematical Wrinkles contains brain teasers, thought provoking questions, recreations, interesting and stimulating problems in arithmetic, algebra, geometry, trigonometry, analytics, and calculus.

----., Mathematical Wrinkles

Nashville: Jones 1929 \$3.00

R.G.L.: H.S.

Source: 7,8,12,20,36,38,57,59,80,82,83

This book contains arithmetical, algebraic, geometric problems and recreations. Here also are found mathematical quotations and examination questions.

Jourdain, P.E.B., (editor) Nature of Mathematics

New York: Open Court 1915 \$1.25

R.G.L.: H.S. and C.

Source: 18,22,76

The author of this book is Georg Cantor. It is a classic

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DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

NO. 1000

BY

DR. J. H. HARRIS

AND

DR. R. M. HARRIS

CHICAGO, ILLINOIS

1950

CHICAGO, ILLINOIS

CHICAGO, ILLINOIS

of science and philosophy which contributes to the founding of the theory of transfinite numbers. The introduction and notes are written by the editor.

Judson, Mrs. Clara Ingram, People Who Come To Our House

Chicago: Rank 1940 \$1.00

R.G.L.: P.S.

Source: 25

Pp. 20-21 carpentry, 46-47 delivery man, 26-27 grocery man.

Justis, Edgar L., Studies in Musical Rhythm

Philadelphia: Presser 1896 \$.60

R.G.L.: I - XII

Source: Publisher

Time is explained in detail. A number of exercises are given in time and rhythm. This study is often called, "the arithmetic of music."

Karpinski, Louis C., A History of Arithmetic

Chicago: Rand 1935 \$2.00

R.G.L.: H.S.

Source: 7,8,18

This interestingly written survey shows that arithmetic plays an important part in civilization. It pays particular attention to American arithmetic with many illustrations of early American works.

----., Numbers Through the Ages and Around the World

Chicago: Colortext Publications 1933 \$.50

R.G.L.: IV - VIII

Source: 35,80

This little book tells in what way the use of numbers has played an important part in the advance of knowledge and civilization. It explains the contributions made by the Arabs, Aztecs, Babylonians, Egyptians, English, Greeks, Hindus, Mayas, and Romans.

----., Robert of Chester's Latin. Translation of the Algebra of Al-Khwarizmi

Ann Arbor: Wahr 1915 \$2.00

R.G.L.: H.S.

Source: 7,15

This scholarly contribution is particularly valuable for the solution of quadratic equations.

Kasir, Daoud S., Algebra of Omar Khayyam

New York: Columbia Teachers College 1931 \$2.00

R.G.L.: C.

Source: 18

It is hoped that this work will be of service to those

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DEPARTMENT OF THE HISTORY OF ARTS

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who are interested in the history of mathematics and who desire a general perspective of the development of algebra from Diophantus to the time of Omar Khayyam. Particular attention has been given to tracing the influence of earlier Greek and Arab achievements in the field of mathematics upon the work of Omar Khayyam and in turn the influence of his work in Persia in the Middle Ages.

Kasner, Edward and Newman, James R., Mathematics and the Imagination

New York: Simon 1940 \$2.75

R.G.L.: H.S.

Source: 20,30,31,33,37,44,46,54,57,76,86,89

This is a book of popularization in which the authors reveal some of the tricks, some of the flights of fancy, and the fascinations of higher mathematics. Contents: assorted geometries, pastimes of past and present times, paradox lost and paradox regained; chance and chanceability, change and changeability.

Kasper, Louis, There Is Fun In Geometry

New York: Fortuny 1937 \$1.50

R.G.L.: VII - XII

Source: 6,37,46,80

The author fulfills three requirements in this book. He gives a practical working knowledge of plane geometry, aids the mechanic or craftsman, and provides recreation for those who wish.

Keal, Harry M. and Leonard, Clarence J., Mathematics for Shop and Drawing Students

New York: Wiley 1921

R.G.L.: H.S. and C.

Source: 2

This book contains material valuable for tradesmen. It is part of the "Wiley Vocational Series" suitable for vocational and industrial schools.

Keelor, Katherine Louise, Little Fox, the Story of an Indian Boy

New York: Macmillan 1932 \$1.75

R.G.L.: IV - VI

Source: 23

P. 78-89 wampum

----., Working With Electricity

New York: Macmillan 1929 \$1.75

R.G.L.: III - V

Source: II

Clear, simple, and interesting experiments are suggested in practical electricity. The diagrams are pertinent.

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Kelly, Raymond Ransome, O-Go, the Beaver

Chicago: Whitman 1934 \$1.50

R.G.L.: VI - VII

Source: 23

Pp. 28-31 signals and signaling

Kelty, Mary G., Beginnings of the American People and Nation

New York: Ginn 1937 \$1.24

R.G.L.: V - VII

Source: 23

Pp. 457-461 taxation

----., Growth of the American People and Nation

New York: Ginn 1934 \$1.40

R.G.L.: VI - VIII

Source: 23

Pp. 228-232 factory system, 481-487 trade

----., Life In Early America

New York: Ginn 1941 \$1.28

R.G.L.: V - VII

Source: 24, 69

Pp. 79, 263, 378 graphs

----., Life In Modern America

New York: Ginn 1941 \$1.44

R.G.L.: VI - VIII

Source: 24

Pp. 469-477 business, 347-65 business depression, 491-505 standard of living

Kemmerer, E. W., ABC of the Federal Reserve System

New Jersey: Princeton University Press 1936 \$2.50

R.G.L.: H.S. and C.

Source: 7

A clear comprehensive account of the federal reserve system is given.

----., Money: The Principles of Money and Their Exemplification in Outstanding Chapters of Monetary History

New York: Macmillan 1935 \$3.50

R.G.L.: H.S. and C.

Source: 7

This book explains the fundamental principles of money and shows how these principles have been exemplified in certain classical chapters in the world's history.

Kendrick, M. Slade, and Seaver, C. H., Taxes: Benefit and Burden

New York: Newson 1937 \$.80

R.G.L.: VI - VIII

Source: 7,61

Nation, state, and local taxes are discussed. A summary of the history of taxation is included.

Keniston, F. A., Mathematics Crossword Puzzle

Menasha: School Science and Mathematics Consult library
files 1925

R.G.L.: H.S.

Source: 7

This puzzle is suitable for a high school mathematics club. The key is included.

Kent, Mrs. E., In Good Old Colonial Times

Boston: Houghton 1947 \$2.50

R.G.L.: V - VIII, P

Source: 24

Pp. 76-79 banks, 60-79 business, 52-53 money

Kerr, Mildred Lewis, City Buildings

Columbus: American Education Press 1939 \$.15

R.G.L.: II - III

Source: 25

Pp. 11-16 shopping

Keyser, Cassius C., Human Worth of Rigorous Thinking

New York: Columbia University Press 1925 \$3.25

R.G.L.: C.

Source: 12,54

This book gives a strong statement concerning the value of mathematics in training the individual.

----., Humanism and Science

New York: Oxford 1931 \$3.00

R.G.L.: H.S. and C.

Source: 28

An evaluation is made of science and mathematics as agencies for realizing humanism's ideal. Contents: Varieties of pseudo-humanism; the meaning of humanism; the meanings of science and mathematics; the humanistic significance of science; the humanistic bearings of mathematics.

----., Mathematical Philosophy

New York: Dutton 1922 \$3.00

R.G.L.: H.S.

Source: 18

These "lectures for educated laymen" propose to disclose the fundamental connections between mathematics and philosophy.

----., Mathematics and the Dance of Life

New York: Scripta 1935 \$.25

R.G.L.: H.S. and C.

Source: 12,18

This address was delivered at the National Council of Mathematics Teachers in Atlantic City, 1935. It tells how and why mathematics is an essential part of "The Dance of Life" and an essential part of the art of living.

----., Mathematics and the Question of the Cosmic Mind with Other Essays

New York: Scripta 1935 \$.75

R.G.L.: H.S. and C.

Source: Publisher

This essay mitigates the tragedy of our modern culture. Other essays in this book are: "The Meaning of Mathematics" and "The Bearings of Mathematics."

----., Mathematics as a Culture Clue

New York: Scripta 1933 Consult library files

R.G.L.: H.S. and C.

This essay has reenforced and set forth clearly Spengler's thesis that the various arts or expression forms of a given Culture, Architecture, Sculpture, Painting, Music, Science, Philosophy, Jurisprudence, Ethics, Mathematics, and the rest bear so strong a family resemblance that to any discerning they all present essentially the same physiognomy so that each of them and especially Mathematics can be taken as a revealing representative of all the others and of the Culture itself as a whole.

----., Nature of Doctrinal Function and Its Role in Rational Thought

New York: Scripta 1933 Consult library files

R.G.L.: H.S.

Source: 18

This paper answers two questions: What is doctrinal function and what is the essential role of doctrinal functions in logical discourse? The following terms, which are to be used throughout the essay are defined: variable, function, value of a variable or of a function, proposition, propositional function, content, and form, postulate, implication, implier, implicate, categorical and hypothetical proposition.

----., The Bearing of Mathematics

New York: Scripta 1932 Consult library files

R.G.L.: H.S.

Source: 18

This essay can be found in Mathematics and the Question of the Cosmic Mind.

----., Pastures of Wonder

New York: Columbia University Press 1929 \$2.75

R.G.L.: H.S.

Source: 18,54

In this selection the author tells us what mathematics is and what it does.

----., Thinking about Thinking

New York: Dutton 1926 \$1.00

R.G.L.: H.S.

Source: 18,76

In this little book the author defines the nature of autonomous or postulational thinking, outlines the course of its development as a scientific method, shows the variety and character of its achievements, shows its relation to empirical thinking and emphasizes its importance.

Kinscella, Hazel Gertrude, Conrad's Magic Flight

Lincoln, Nebraska: University Publishing Co. 1930 \$.88

R.G.L.: IV - VI

Source: 23

Pp. 14 clocks and watches

This is a book of poems.

----., Man In the Drum

Lincoln: University Publishing Co. 1930 \$.72

R.G.L.: III

Source: 25,27

Pp. 32-36 clocks, 35 clocks (poetry)

Klein, Christian Felix, Lectures on Mathematics

New York: Macmillan 1894 Consult library files

R.G.L.: H.S.

Source: 18,80

These lectures were delivered before "Members of Congress of Mathematics" held in connection with the Chicago world's Fair. The lectures include: "On the Real Shape of Algebraic Curves and Surfaces", "Theory of Functions and Geometry", "Ideal Numbers," "Solution of Higher Algebraic Equations," and "Most Recent Research on non-Euclidean geometry."

----., Famous Problems of Elementary Geometry

New York: Stechert 1930 \$1.50

R.G.L.: H.S.

Source: 80

The contents of this book include: duplication of the cube, trisection of an angle, the quadrature of the circle.

Klinefelter, Lee Miller, Electrical Occupations

New York: Dutton 1937 \$2.00

R.G.L.: VII - IX

Source: 4

In this book a list of schools and colleges is given for electrical engineering, radio, and welding.

Knibbs, George Handley, The Mathematical Theory of Population

Melbourne: McCarron 1917 Price not published

R.G.L.: H.S. and C.

Source: 2

Here is found the mathematical theory of population, its character and fluctuations, and the factors which influence them.

Kniffin, W. H., American Banking Practice

New York: McGraw 1929 \$3.50

R.G.L.: H.S. and C.

Source: 7

Written in this book is a treatise on the practical operation of a bank. It is intended for students, bank employees and others who would know of the conduct of a bank under recognized American practice.

Knoblach, P. B., Good Practice in Construction

New York: Pencil Point Press 1923 \$4.00

R.G.L.: H.S.

Source: 2

Instructions and diagrams are given for mechanical drawing. Architectural plans can also be found in this book.

Knopp, Dr. Konrad, Theory of Functions

New York: Dover 1945 \$1.25

R.G.L.: H.S.

Source: Publisher

This little monograph, written in concise form, covers rather thoroughly the functions of a complex. It includes integral theorems, series and expansion in series and singularities.

Knox, Warren William, Wonderworld of Science

New York: Scribner 1940 \$.96

R.G.L.: III

Source: 25

Pp. 74-75 thermometers

Kokomoor, Franklin Wesley, Mathematics in Human Affairs

New York: Prentice Hall 1942 \$5.00

R.G.L.: H.S.

Source: 72,83

[The text on this page is extremely faint and illegible. It appears to be a multi-paragraph document with several lines of text per section. There are some faint markings that could be interpreted as bullet points or list items, but they cannot be transcribed accurately.]

This book begins with the simplest functions and ends with the calculus. In each chapter a discussion is held of the subject then a few of its historical connections are given along with descriptive material about it for orientation purposes.

Korson, George, Blackland, The Way of Life in the Coal Fields
New York: Row 1941 \$.96

R.G.L.: H.S.

Source: Publisher

A clear frank account is given of the serious social and industrial situation affecting hundreds of thousands of miners. The history of industry and economics is correlated in this book.

Korsybski, Count Alfred, Science and Sanity

New York: Science Press 1933 \$7.00

R.G.L.: H.S.

Source: 18

The author gives an introduction to Non-Aristotelian systems.

Kozminsky, Isadore, Numbers, Their Meaning and Magic

New York: Putnam 1927 \$1.25

R.G.L.: H.S.

Source: Publisher

The author explains the meaning, magic and symbolism of numbers. This book is a revised edition of Numbers, Their Meaning and Mystery.

Kraitchik, Maurice, Mathematical Recreations

New York: Norton 1942 \$3.75

R.G.L.: VII - XII

Source: 10, 28, 38, 44, 71, 72, 83, 86, 89

Mathematical problems, pastimes, and games are presented for students with a definite mathematical inclination. Problems range from simple ones to those challenging trained mathematicians.

Kristoffersen, E. M., Hans Christian of Elsinore

Chicago: Whitman 1937 \$2.00

R.G.L.: III - V

Source: 23

Pp. 24-28 markets in Denmark

Kuh, Mrs. Charlotte Greenbaum, The Deliverymen

New York: Macmillan 1929 \$.35

R.G.L.: III

Source: 25, 27

This book tells about stores and the men who work there.

Kummer, Frederick Arnold, First Days of Knowledge

New York: Doubleday 1923 \$2.00

R.G.L.: VI - VII

Source: 4,23,35,42,75

Pp. 218-27 money, 291-300 numbers, 291-300 weights and measures

Lacey, Ida Belle, Light Then and Now

New York: Macmillan 1930 \$.96

R.G.L.: IV - V

Source: 23

Pp. 45-49 clocks and watches

Laisant, C. Ange, Initiation Mathematique

Paris: Hachette 1913 97)

R.G.L.: T

Source: 13

This book is written in French but is easy reading and has a refreshing outlook on mathematics.

----., Mathematics

New York: Doubleday 1914 \$.50

R.G.L.: H.S.

Source: 22

In easy style is given here mathematical recreations, discussions and applications. This volume discusses the principles that underlie the science of mathematics and is especially addressed to those responsible for the instruction of children.

Lamoreaux, Mrs. Lillian Amick and Lee, Mrs. Doris May,

Good Times in the City

Chicago: Lyons 1940 \$.20

R.G.L.: I

Source: 25

Pp. 7-10 money, 15-16 telling time

----., Dairy Farm

Chicago: Lyons 1939 \$.32

R.G.L.: II

Source: 25

Pp. 49-52 weights and measures

Lamprey, Louise, All The Ways of Building

New York: Macmillan 1933 \$3.50

R.G.L.: VI - VIII

Source: 4

The history of architecture is traced from huts to skyscrapers. The materials and tools used in each phase is discussed.

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Langdon-Davies, John, Inside the Atom

New York: Harper 1933 \$2.00

R.G.L.: VIII - X

Source : 4,9

Because of its graphic style and easily understood illustrations, this book will answer general and usual questions in physics and chemistry and will arouse a desire for investigation.

Langle, Andrew (editor) Nursery Rhyme Book

London: Warne 1933 2S 6d

R.G.L.: I - VI

Source: 5

In this book we may find the following nursery rhymes that help to enrich a sense of number: "Sing a Song of Sixpence", "There Was A Crooked Man," "One Little Pig Went To Market", "Higeldy, Pigeldy, My Black Hen," "Dickory, Dickory Dock," "Diddle, Diddle Dumpling," and "Barber, Barber, Shave A Pig."

Lansing Marion Florence, Great Moments In Freedom

New York: Doubleday 1930 \$2.50

R.G.L.: VII - VIII

Source: 44

This book shows how clocks, telescopes, telephones, telegraph, the radio, steam engine, and automobile have won many victories over time and space.

----., Great Moments In Science

New York: Doubleday 1926 \$2.50

R.G.L.: VI - VIII

Source: 4,23

Pp. 93-116 clocks, 95-97 sundials

----., Man's Long Climb

New York: Doubleday 1926 \$2.50

R.G.L.: IV - VI

Source: 23,35,42

Pp. 50-55 calendars, 117-123 clocks, 128-129 money, 111-127 numbers, 68-70 surveying

Lasker, Edward, Chess and Checkers

New York: Appleton 1926 6S

R.G.L.: H.S. and C.

Source: 2

Here we find complete instructions for beginners and valuable suggestions for advanced students.

Handwritten text, mostly illegible due to extreme blurriness. The text appears to be organized into several paragraphs, with some lines indented. There are approximately 15-20 lines of text visible across the page.

Lasker, Emanuel, Chess Primer

Philadelphia: McKay 1934 \$1.00

R.G.L.: H.S. and C.

Source: 2

This text for beginners teaches the fundamentals of chess in a new, easy, and quick way.

----., Encyclopedia of Games

New York: Dutton 1929 \$3.50

R.G.L.: H.S. and C.

Source: 2

This first volume consists of intellectual games in card strategy. The second volume will consist of games in checkers, chess, board games, riddles, and mathematical games. The procedure is from simple to complex.

Lattimore, Eleanor Frances, Seven Crowns

New York: Harcourt 1933 \$1.75

R.G.L.: III - V

Source: 23

Pp. 39-54, 107-123 shopping

Lawrence, Anne, The Clown's Clock Book

Grand Rapids: Fidler 1946 \$1.00

R.G.L.: PP and I

Source: 59

This thrilling visit to the circus with Mr. Clown will teach any little boy and girl to tell the time of day.

Lazerte, Milton Ezra, Development of Problem Solving Ability In Arithmetic

Toronto: Clarke 1933 \$1.25

R.G.L.: VI - XII

Source: 2

Here we find a summary of investigations made by the author to advance ability to solve problems.

Lawson, E. W., Better Citizenship for Little Americans

Chicago: Beckley 1933 \$.70

R.G.L.: II

Source: 27

Pp. 61-81 banks and banking, 54-100 money

----., Better Living for Little Americans

Chicago: Beckley 1928 \$.70

R.G.L.: II

Source: 27

Pp. 82-89 banking

Leacock, Stephen, Literary Lapses

New York: Dodd 1923 \$2.00

R.G.L.: H.S.

Source: 16

This book contains two of the best pieces of mathematics humor ever written. "Boarding House Geometry" treats of life in a boarding house in the style of a textbook in plane geometry with definitions, postulates, and theorems. "Human Elements in Mathematics" deals with the life history of A, B and C based on their careers as stated in the verbal problems in algebra.

Leaf, Munro, Fair Play

New York: Stokes 1939 \$1.50

R.G.L.: III - IV

Source: 24

Pp. 65-77 taxation

Lean, John Udy, Freaks of Figures

Detroit: Modern Methods 1907 \$.75

R.G.L.: H.S.

Source: 17

This unique collection of interesting arithmetical recreations and amusing mental diversions is suitable for parlor entertainment and social gatherings for young and old.

Lee, Mrs. Melicent Humanson, In the Land of Rubber

New York: Crowell 1939 \$1.75

R.G.L.: V - VIII

Source: 23

Pp. 77-87 markets in the Malay Peninsula

----., Marcos: A Mountain Boy of Mexico

Chicago: Whitman 1937 \$2.00

R.G.L.: IV - VI, P

Source: 23

Pp. 70-74 markets in Mexico

----., Pablo and Petra: A Boy and Girl of Mexico

New York: Crowell 1934 \$1.50

R.G.L.: V - VII

Source: 23

Pp. 3-86 markets in Mexico

Leeming, Joseph, (Merlin Swift, Pseud.) Fun With Paper

New York: Stokes 1939 \$2.00

R.G.L.: H

Source:

This book includes suggestions for making the pentagon, Chinese tangram, and various dissection puzzles.

----., Fun With Plastics

Chicago: Lippincott 1946 \$2.00

R.G.L.: VII - XII

Source: 28

Directions are given for making jewelry, boxes, vases, toys and dozens of useful and attractive gifts.

----., Fun With Puzzles

Chicago: Lippincott 1926 \$2.00

R.G.L.: IV - IX

Source: 40, 55, 71

Puzzles of every kind for everybody can be found here. This includes problems with coins, mathematical and number puzzles.

----., Models Any Boy Can Build

New York: Appleton 1938 \$2.00

R.G.L.: H.

Source: 5, 23

Here we find patterns for building mechanical toys and a variety of easy-to-make models.

----., More Things Any Boy Can Make

New York: Appleton 1936 \$2.00

R.G.L.: H.

Source: 23

Pp. V.P. mechanical toys, 50-51 sundials, 18-19 weights and measures

----., Things Any Boy Can Make

New York: Appleton 1929 \$2.00

R.G.L.: H.

Source: 23

This book describes objects that can be made quite easily from available materials. Pp. 94-95 barometers

----., Tricks Any Boy Can Do

New York: Appleton 1938 \$2.00

R.G.L.: V - VII

Source: 41

Methods for performing tricks with cards, coins, matches and match boxes are given.

Leffler, Ray Victor, Money and Credit

New York: Harper 1935 \$3.50

R.G.L.: H.S. and C.

Source: 2, 28

The subject of money and credit in the U. S. is discussed covering the period from 1860-1933.

The first of these is the fact that the
 system is not a simple one. It is a
 complex one, and it is not possible to
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The second of these is the fact that the
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The third of these is the fact that the
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 complex one, and it is not possible to
 describe it in a simple way.

The seventh of these is the fact that the
 system is not a simple one. It is a
 complex one, and it is not possible to
 describe it in a simple way.

Lehman, Agnes C., Milly and Her Village

New York: Macmillan 1931 \$1.75

R.G.L.: IV - VI

Source: 23

Pp. 30-38 markets of Germany

Leitch, Albert C., Miniature Boat Models

New York: Henley 1928 \$3.00

R.G.L.: VII - XIV

Source: Publisher

The author has written a complete and concise manual describing processes and operations involved in building power racing, and sail boats. This book is written for the expert amateur, or student.

Lent, Henry Bolles, Clear Track Ahead

New York: Macmillan 1932 \$2.00

R.G.L.: V - VII

Source: 23

Pp. 34-35, 40-44 signals and signaling

----., Straight Down

New York: Macmillan 1944 \$.72

R.G.L.: II

Source: 26

Pp. 21-92 fairs

----., The Storekeeper

New York: Macmillan 1937 \$.35

R.G.L.: III

Source: 25

This is a story of grocery stores.

Lester, Katherine Morris, Great Pictures and Their Stories

New York: Mentzer 1927 \$.80

R.G.L.: III - V

Source: 23

Pp. 102-109 markets in France

Leurechon, J., Mathematical Recreations

London: Cotes 1633 Consult library files

R.G.L.: H.S. and C.

Source: 2

Here we find a collection of sundrie problems, extracted out of the ancient and moderne philosophers, as secrets in nature and experiments in arithmeticke, geometrie, cosmographie, horologographie, astronomie, navigation, musicke, opticks, machanicks, and chimestrie.

Levinson, H. C., Your Chance to Win: The Laws of Chance and Probability

New York: Farrar 1939 \$2.50

R.G.L.: H.S.

Source: 8

This is a comprehensive study of the laws of chance and probability and how they enter into various aspects of life from cards to business and scientific research. Its nearest relative is Mathematics for the Millions. It tells how to reckon mathematical chances of success in business, war, love, and baseball.

Lewis, Florence P., A History of the Parallel Postulate

New York: American Mathematical Monthly 1920 Consult library files

R.G.L.: H.S.

Source: 18

The views and attitudes of Proclus in the fifth century, Savile in 1621 and Saccheri in 1733 are given, also those of Posidonius and Ptolemy. Euclid's postulate which says that "through a point but one parallel to a given line can be drawn," is at last demonstrated.

Lewis, William Dodge and others, Facts and Fancies

Chicago: Winston 1937 \$.80

R.G.L.: IV - VI

Source: 23,69

Pp. 78-80 arithmetic, 361-370 barter, 20 graphs, 371-386 money

----., Growing Up

Chicago: Winston 1936 \$.60

R.G.L.: I

Source: 27

Pp. 50-52 grocery stores, 53-57 markets

----., Pets and Playmates

Chicago: Winston 1936 \$.60

R.G.L.: P

Source: 27

Pp. 60-63 grocery stores, 132-133 pet stores

----., Scouting Through

Chicago: Winston 1937 \$.88

R.G.L.: VI - VIII

Source: 23,69

Pp. 169-171 arithmetic, 139-155 graphs, 284-285 saving and thrift, 166-168 sundials

----., Whys and Wherefores

Chicago: Winston 1937 \$.84

R.G.L.: V - VII

Source: 23,69

Pp. 262-264 arithmetic, 308-312 clocks, 1,8,16,17,403-417 graphs, 78-81 saving and thrift, 104-107 weights and measures

Licks, H. E., Recreations in Mathematics

New York: Van Nostrand 1921 \$1.50

R.G.L.: H.S. and C.

Source: 7,12,20,30,57,80,82,83,89

A large number of puzzle problems are given dealing with arithmetic, algebra, geometry, trigonometry, analytics, and calculus.

Lide, Alice Alison, Yinka-tu the Yak

New York: Viking 1938 \$2.00

R.G.L.: VI - VIII, P

Source: 23

Pp. 24-33 money

Lieber, Hugh Gray and Lieber, Mrs. Lillian R., The Education of T. C. Mits

New York: Norton 1944 \$3.00

R.G.L.: C.

Source: 44,67,68,72,76,85,89

This little book with its enigmatic drawings and strange topography is partly an exposition of classical mathematics. It is partly concerned with the new mathematics in which 'twice two is not four' and by virtue of which we may speak of living in a four dimension world without being either confused or mystical.

Lieber, Lillian R., Non-Euclidean Geometry

New York: Academy Press 1931 \$5.00

R.G.L.: H.S. and C.

Source: 76

This volume contains an interesting discussion of the fourth dimension.

----., Take A Number of Mathematics for the Two Billion

Lancaster, Pa.: Cattell 1946 \$2.75

R.G.L.: H.S. and C.

Source: 2,89

This book includes a review of general mathematics for adults who have found mathematics difficult. It includes some mathematical recreations.

----., The Einstein Theory of Relativity

Lancaster, Pa.: Science Press 1936

R.G.L.: H.S. and C.

Source: 80

In a very interesting and simple way Einstein's theory of relativity is explained here.

Lietzmann, Walter, Lüstringes und Merkwürdiges von Zahlen und Formen

Breslau: Hirt 1930 \$8.50

R.G.L.: H.S.

Source: 7

This is a book of mathematical recreations.

Lindbergh, Ann, North to the Orient

New York: Harcourt 1935 \$2.50

R.G.L.: H.S. and C.

Source: 73

The whole expedition was planned with mathematical precision.

Lindman, Mrs. May, Jan, Snipo, Snapp, Snurr and the Red Shoes

Chicago: Whitman 1934 \$1.00

R.G.L.: III

Source: 9

This is a story of a child who earned the price of a pair of shoes for his mother's birthday.

Linnell, Gertrude, Behind the Battlements

New York: Macmillan 1931 \$2.00

R.G.L.: VI - VIII

Source: 23

Pp. 58-60 arithmetic

Lloyd, Samuel, A Puzzle Book for Children

Philadelphia: McKay 1912 \$2.00

R.G.L.: IV - VIII

Source: 7, 28

Here we find one hundred and twenty pages of puzzles.

Lobachevskii, Nikolai and Holsted, G. H., (translator)

Geometric Researches on the theory of Parallels

LaSalle: Open Court 1914 \$1.00

R.G.L.: H.S. and C.

Source: 76

This discussion of non-Euclidean geometry was translated from the original by George Bruce Holsted.

Lockry, Andrew Jules, Plastics in the Home and School Workshop

New York: Van Nostrand 1940 \$2.50

R.G.L.: H.S.

Source: 6

The use of plastics at home and at school is considered.

Lodge, Sir O., Pioneers of Science

New York: Macmillan 1904 \$2.50

R.G.L.: H.S. and C.

Source: 16

Interesting accounts are written here of Copernicus, Tycho, Brahe, Kepler, Galileo, Descartes, and Newton.

Loeb, Harold and others, The Chart of Plenty

New York: Viking 1935 \$2.50

R.G.L.: H.S. and C.

Source: 2

This study of America's product capacity based on the findings of the National Survey of Potential Product Capacity brings the authors to the conclusion that the productive capacity is ample for the population but that the distributing system is inadequate.

Logsdon, Mrs. Mayme Irwin, A Mathematician Explains

Chicago: Chicago University Press 1936 \$2.50

R.G.L.: C.

Source: 12,30,37,54,80,89

This volume shows how the development of mathematics has come to satisfy a definite human need.

Loomis, Elisha Scott, The Pythagorean Proposition

Berea, Ohio: Prof. O. L. Dustheimer 1940 \$2.00

R.G.L.: H.S. and C.

Source: 6

Two hundred and sixty-five proofs of this famous proposition are given. The demonstrations are analysed and classified and a bibliography of sources is given for the kinds of proofs.

----., The Pythagorean Theorem

Cleveland: Masons 1927 \$2.00

R.G.L.: H.S.

Source: 8

Two hundred and sixty-five proofs of this famous theorem are given here.

Loring, S. E. and Jenney, W. LeB., Principles and Practice of Architecture

Cleveland: Cobb 1869 Consult library files

R.G.L.: H.S. and C.

Source: 2

Forty-six folio plates of plans, elevations, and details of churches, dwellings, and stores are given. An explanation and illustrations of the French system of houses and the dwellings for laboring classes is discussed.

Losh, Rosamond and Weeks, R. M., Primary Number Projects
 Boston: Houghton 1923 \$1.20
 R.G.L.: I - II
 Source: 15

A collection of projects and number games can be found here suitable for grades one and two.

Mabry, Caroline, Castles in Spain
 Chicago: Whitman 1933 \$1.00
 R.G.L.: III - V
 Source: 23
 Pp. 105-109 markets in Spain

McCann, Ernest Armitage, Ship Model Making (2 volumes)
 New York: Henley 1926 \$2.50
 R.G.L.: VII - XII and H
 Source: 19
 Volume I describes seventeenth century ship models.
 Volume II gives full directions for making a model of an American Clipper Ship.

----., How to Make a Model of the American Clipper Ship
 New York: Henley 1926 \$2.50
 R.G.L.: VII - XII and H.
 Source: Publisher
 Full directions are given for making a clipper ship.

----., How to Make Worthwhile Models of Decorative Ships
 New York: Henley 1926 \$2.50
 R.G.L.: VII - XII and H.
 Source: Publisher
 Directions for making two models are given: a Pirate Felucca and a Spanish Gallion. They are correct to period and scale.

McConnell, Wallace Robert, Living in Country and City
 Chicago: Rand 1937 \$.92
 R.G.L.: III - V
 Source:
 Pp. 132-133 banks, 167-168 office buildings

McCormack, Joseph Patrick, Mathematics for Modern Life
 New York: Appleton 1942 \$1.32
 R.G.L.: H.S.
 Source: 68

This well written book is particularly for those of lower mentality. It is illustrated in many points and fairly free from formal algebra. The author claims to have applied the new principles of integrated teaching.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations

(1)
$$\frac{dx}{dt} = f(x, y), \quad \frac{dy}{dt} = g(x, y),$$

where f and g are continuous functions of x and y in a domain D of the plane.

It is assumed that the functions f and g satisfy the conditions

(2)
$$f(x, y) \text{ and } g(x, y) \text{ are continuous in } D,$$

and that the functions f and g are bounded in D .

It is shown that under these conditions the system (1) has at least one solution in D .

The second part of the paper is devoted to a study of the properties of the solutions of the system (1).

It is shown that if the functions f and g are continuous in D and if the functions f and g are bounded in D , then the solutions of the system (1) are continuous in D .

It is also shown that if the functions f and g are continuous in D and if the functions f and g are bounded in D , then the solutions of the system (1) are unique in D .

The third part of the paper is devoted to a study of the properties of the solutions of the system (1) in the case where the functions f and g are not continuous in D .

It is shown that if the functions f and g are not continuous in D , then the solutions of the system (1) may not be unique in D .

It is also shown that if the functions f and g are not continuous in D , then the solutions of the system (1) may not be continuous in D .

The fourth part of the paper is devoted to a study of the properties of the solutions of the system (1) in the case where the functions f and g are not bounded in D .

McCrory, Mae, Our School

New York: American Education Press 1939 \$.15

R.G.L.: I - II

Source: 25

Pp. 15-17 playing store

MacDonald, Louise Anderson, Mathematics and English

Menasha: Mathematics Teacher 1925 Consult library files

R.G.L.: T

Source: 15

This essay states a correlation between Mathematics and English. It stresses the fact that "and" and "but" connect like quantities. It is clearer when "and" means "plus" and "but" means the minus sign of language.

Macfarlane, A., Lectures on Ten British

New York: Wiley 1916 \$1.25

R.G.L.: H.S. and C.

Source: 2

Lectures have been given on the following educators:

G. Boole, A. Cayley, W. K. Clifford, Sir W. R. Hamilton,
H. T. Kirkman, A. deMorgan, G. Peacock, H.J. S. Smith, J. J.
Sylvester and I. Todhunter.

McGuire, Edna, Brave Young Land

New York: Macmillan 1937 \$1.08

R.G.L.: V - VII

Source: 23

Pp. 311-312 taxation

-----, Full-grown Nation

New York: Macmillan 1937 \$1.28

R.G.L.: V - VII

Source: 23

Pp. 414-420 business, 421-423 business depression

Mach, Ernst, Science of Mechanics

LaSalle: Open Court 1942 \$3.50

R.G.L.: T

Source: 13

This book reads like a novel and will keep the teacher in wide awake touch with mathematics as it connects with physics.

McIntire, A. and Hill, W., Workers at Home and Away

Chicago: Follett 1946 \$1.40

R.G.L.: III

Source: 26

Pp. 145-151 shopping

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part is a list of the names and addresses of the members of the committee.

3. The third part is a list of the names and addresses of the members of the committee.

4. The fourth part is a list of the names and addresses of the members of the committee.

5. The fifth part is a list of the names and addresses of the members of the committee.

6. The sixth part is a list of the names and addresses of the members of the committee.

7. The seventh part is a list of the names and addresses of the members of the committee.

8. The eighth part is a list of the names and addresses of the members of the committee.

9. The ninth part is a list of the names and addresses of the members of the committee.

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13. The thirteenth part is a list of the names and addresses of the members of the committee.

14. The fourteenth part is a list of the names and addresses of the members of the committee.

15. The fifteenth part is a list of the names and addresses of the members of the committee.

16. The sixteenth part is a list of the names and addresses of the members of the committee.

17. The seventeenth part is a list of the names and addresses of the members of the committee.

18. The eighteenth part is a list of the names and addresses of the members of the committee.

McKay, Herbert, Air and the Wind
 New York: Oxford 1929 \$1.00
 R.G.L.: V - VIII
 Source: 23
 Pp. 26-34 air pressure

----., Odd Numbers or Arithmetic Revisited
 New York: Macmillan 1943 \$2.00
 R.G.L.: H.S.
 Source: 76

This book is not a text but when you sit down to read you should have a paper and pencil for mental gymnastics in the field of arithmetic. The story of "How We Got Logarithms" is very interesting. Also of particular note is the section on "Weights and Measures."

McKay, Herbert, Practical Mathematics For All
 Hazelwood, Eng.: Odhams 1942 6S 6D
 R.G.L.: H.S.
 Source: 2

This simplified but complete course includes arithmetic, algebra, geometry, trigonometry, and calculus with examples and exercises for each.

----., Sun and Moon
 New York: Oxford 1929 \$1.00
 R.G.L.: V - VIII
 Source: 23
 Pp. 14-18 sundials

----., The World of Numbers
 New York: Macmillan 1946 \$2.75
 R.G.L.: H.S.
 Source: 28, Publisher

Mr. McKay's book is written not for mathematicians but for that large public eye that enjoys the odd facts and fancies that are connected with numbers, their measurements, and calculations. A charming chapter is included on the numbers that have been used by poets. This book should stimulate and delight thousands of readers with entertainment that is sometimes serious and always genial.

McLaughlin, Henry P., Algebraic Magic Squares
 Menasha: Mathematics Teacher 1921 Consult library files
 R.G.L.: H.S.
 Source: 7

A short discussion is given on numerical magic squares. The author shows how the same idea may be used with algebraic polynomials in the cells of squares.

McLaughlin, Katherine Louise, A Study of Number Ability in Children of Ages Three to Six

Chicago: University of Chicago 1935 Consult library files

R.G.L.: T

Source: 15

The following topics are discussed here: The study and teaching of arithmetic, child ability, child study, and number ability in children.

----., and Troxell, Eleanor, Number Projects for Beginners

Chicago: Lippincott 1923 \$1.60

R.G.L.: T

Source: 76

This is a study of the teaching of arithmetic. It includes a discussion of the project method in teaching.

MacMahon, Percy, Alexander, New Mathematical Pastimes

New York: Macmillan 1930 \$3.00

R.G.L.: H.S.

Source: 7,8,12,18,28,64,76,79

This book contains recreational material based on elementary geometrical shapes.

McMillen, Wheeler, Young Collector

New York: Appleton 1928 \$1.75

R.G.L.: V - VIII

Source: 4

Pp. 33-44 tells how to collect coins

McSorley, Kathryn, The Mock Trial of B Versus A

Menasha: School Science and Mathematics 1918 Consult library files

R.G.L.: H.S.

Source: 18 and publisher

This play follows the idea contained in Stephen Leacock's Human Elements in Mathematics. It introduces material in harmony with Leacock's humor.

McSpadden, Joseph Walker, Archimedes

New York: Dodd 1939 \$2.75

R.G.L.: VI - IX

Source: 47

Biographical sketches appear in this book of Hippocrates, Aristotle, Archimedes, Galileo, Newton, Watt, Audubon, L. Daguerre, M. Faraday, Thomas A. Edison, Louis Pasteur, W. K. Roentgen, Marie Curie, Henry Ford, Wilbur and Orville Wright.

----., Schoolmaster Who Wrote His Own Books

New York: Dodd 1942 \$2.75

R.G.L.: VI - VIII

Source: 35

The inevitable legends are given here in perspective. The treatment is imaginative and highly readable but sound. The selection shows discrimination and the descriptions are long enough to give full proportions.

Majer, Frederick, Our Country's Money

New York: Crowell 1939 \$2.00

R.G.L.: VI - VIII

Source: 61

This history of money is intended for young readers. The major part of the book is devoted to the making of American money describing what it is, how it is made, and how protected.

Mallory, Virgil S., Mathematics for Everyday Affairs

New York: Sanborn 1940 \$1.60

R.G.L.: H.S.

Source: Publisher, 28

This study includes methods in arithmetic since 1901. It is a course in general mathematics. The answers to the exercises are in Chapter 16.

----., Mathematics for Victory

New York: Sanborn 1943 \$1.64

R.G.L.: H.S. and C.

Source: 28, Publisher

This book meets the needs of those expecting to enter the armed forces, nursing, industry, and civilian life.

Manning, Henry Parker, Fourth Dimension Simply Explained

London: Methuen 1934 \$2.50

R.G.L.: H.S.

Source: 18

This interesting collection of essays is written on the fourth dimension in non-Euclidean geometry.

Marcy, Clarence A. and Marcy, Ferne, L., Indians' Garden

San Francisco: Wagner 1937 \$1.00

R.G.L.: III - V

Source: 23

Pp. 111-125 time

Marder, Clarence C., Magic Squares of Benjamin Franklin

New York: Brick Row Book Shop 1940 \$1.00

R.G.L.: H.S.

Source: 28

Handwritten text at the top of the page, possibly a title or header.

First main paragraph of handwritten text.

Second main paragraph of handwritten text.

Third main paragraph of handwritten text.

Fourth main paragraph of handwritten text.

Fifth main paragraph of handwritten text.

Sixth main paragraph of handwritten text.

Seventh main paragraph of handwritten text.

Eighth main paragraph of handwritten text.

Ninth main paragraph of handwritten text.

Tenth main paragraph of handwritten text.

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This is the first of a series of four papers describing the technique of Leonhard Euler applied to the Lahireian method of forming magic squares of all sizes under the general title "The Intrinsic Harmony of Number."

Marran, Ray J., Making Models of Famous Ships

New York: Appleton 1940 \$2.00

R.G.L.: VII - XII

Source: 28

The models of ships given here have plans and diagrams included.

Marsh, Horace Wilmer, Constructive Textbook of Mathematics

New York: Wiley 1912 \$2.00

R.G.L.: H.S.

Source: 22

This book is popular with boys who have an interest in mechanics.

----., Vocational Mathematics

New York: Wiley 1912

R.G.L.: H.S.

Source: 17

This book is suitable for students that enjoy mechanics better than academic work.

Marshak, Ilia (Ilin, M. Pseud.) Black on White

Chicago: Lippincott 1932 \$1.50

R.G.L.: V - VII

Source: 9, 23, 42

From reading this book a child may learn how the alphabet and symbols for numbers evolved.

Pp. 66-69 numbers, 19-22 wampum

----., What Time Is It?

Chicago: Lippincott 1932 \$1.50

R.G.L.: VI - IX

Source: 4, 7, 23, 59

This interesting account has been translated from Russian and printed with the original illustrations made by N. Lapshin. It discusses certain devices used through the ages to record the passing time.

Marshall, Leon Carroll, Story of Human Progress

New York: Macmillan 1928 \$3.50

R.G.L.: VII - VIII

Source: 4

Pp. 229-242 money

1. The first part of the report deals with the general situation of the country and the position of the various groups of the population.

2. The second part of the report deals with the economic situation of the country and the position of the various groups of the population.

3. The third part of the report deals with the social situation of the country and the position of the various groups of the population.

4. The fourth part of the report deals with the cultural situation of the country and the position of the various groups of the population.

5. The fifth part of the report deals with the political situation of the country and the position of the various groups of the population.

6. The sixth part of the report deals with the international situation of the country and the position of the various groups of the population.

7. The seventh part of the report deals with the future of the country and the position of the various groups of the population.

8. The eighth part of the report deals with the conclusion of the report and the position of the various groups of the population.

9. The ninth part of the report deals with the appendix of the report and the position of the various groups of the population.

10. The tenth part of the report deals with the bibliography of the report and the position of the various groups of the population.

11. The eleventh part of the report deals with the index of the report and the position of the various groups of the population.

12. The twelfth part of the report deals with the conclusion of the report and the position of the various groups of the population.

13. The thirteenth part of the report deals with the appendix of the report and the position of the various groups of the population.

Martin, Cora M., Tales and Travels

New York: Scribner 1930 \$.72

R.G.L.: II

Source: 25,27

Pp. 5-10 shopping

Martin, Martha Evans, The Friendly Stars

New York: Harper 1907 \$1.25

R.G.L.: H.S.

Source: 22

Here we find a presentation of elementary astronomy without lack of scientific accuracy.

Mason, Miriam Evangeline, Home is Fun

Chicago: Beckley 1931 \$.80

R.G.L.: I

Source: 25

Pp. 105-106 thrift

Masters, Katherine W., Pet Club

Boston: Heath 1937 \$.96

R.G.L.: III

Source: 23,27

Pp. 40-46 pet stores

Mazer, Sonia Masha, A Little Russian Girl

New York: Doubleday 1932 \$1.75

R.G.L.: V - VII

Source: 23

Pp. 27-44 markets in Russia

Meadowcroft, Mrs. Enid LaMonte, Along the Erie Tow-Path

New York: Crowell 1940 \$2.00

R.G.L.: IV - VI

Source: 24

Pp. 74-82 markets in the United States

Meeks, Anna R., Recreational Aspects of Mathematics in the Junior High School

Menasha: Mathematics Teacher 1936 Consult library files

R.G.L.: I

Source: Publisher

This essay makes suggestions for the use of mathematical puzzles and games in the class period. It also gives suggestions for mathematical clubs and a mathematical newspaper.

Meister, Morris, Heat and Health

New York: Scribner 1931 \$1.08

R.G.L.: VII - VIII

Source: 4

Pp. 73-84 thermometers

1. The first part of the paper is devoted to a general discussion of the problem.

2. The second part is devoted to a detailed analysis of the case.

3. The third part is devoted to a discussion of the results.

4. The fourth part is devoted to a discussion of the conclusions.

5. The fifth part is devoted to a discussion of the future work.

6. The sixth part is devoted to a discussion of the references.

7. The seventh part is devoted to a discussion of the appendix.

8. The eighth part is devoted to a discussion of the bibliography.

9. The ninth part is devoted to a discussion of the index.

10. The tenth part is devoted to a discussion of the summary.

11. The eleventh part is devoted to a discussion of the conclusion.

12. The twelfth part is devoted to a discussion of the appendix.

13. The thirteenth part is devoted to a discussion of the bibliography.

14. The fourteenth part is devoted to a discussion of the index.

15. The fifteenth part is devoted to a discussion of the summary.

16. The sixteenth part is devoted to a discussion of the conclusion.

Members of the Mathematics Club, A Mathematical Playlet

Menasha: Mathematics Teacher 1945 Consult library files
R.G.L.: H.S.

Source: Our Lady of the Lake High School, San Antonio, Texas

This play tells the value of mathematics in various walks of life. It begins with the necessity of mathematics in the home, later in art, science, shopping, navigation, and music.

Mendenhall, James E. and Harap, Henry, Consumer Education

New York: Appleton 1943

R.G.L.: H.S.

Source: Publisher, 28

In this book the author stresses the idea that the educational system should be directed to provide for individual needs so that he may enjoy the fulness of life in a democratic society. Therefore training in consumer economics is extremely important.

Menge, W. O. and Glover, J. W., An Introduction to the Mathematics of Life Insurance

New York: Macmillan 1935 \$3.00

R.G.L.: H.S. and C.

Source: 7

This book deals with tables, annuities, net premiums, and modern reserve systems. It requires no previous knowledge of calculus or probability.

Merceron, D. S., The Square Root of Surds

Sands: Baltimore 1848 Consult library files

R.G.L.: H.S.

Source: 2

In this book may be found the solution of the XLVII problem of Euclid, the square of the circle, and the true method of finding the circumference.

Merrill, Helen Abbott, Mathematical Excursions

Boston: Humphries 1933 \$2.00

R.G.L.: H.S. and C.

Source: 12, 33, 67, 76, 79

This book contains a large number of problems which the author gathered for her use in the classroom. The solving involves the simplest types of algebra and geometry.

----., Three Mathematical Songs

Menasha: Mathematics Teacher 1932 Consult library files

R.G.L.: H.S. and C.

Source: Publisher

These three songs were written for a Wellesley College Mathematics Club.

The first part of the report deals with the general situation of the country and the progress of the work during the year. It is followed by a detailed account of the various projects and the results achieved. The report concludes with a summary of the work done and a list of the names of the persons who have contributed to it.

The second part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The third part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The fourth part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The fifth part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The sixth part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The seventh part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The eighth part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The ninth part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

The tenth part of the report contains a list of the names of the persons who have contributed to the work during the year. It is arranged in alphabetical order and includes the names of all the persons who have contributed to the work in any way.

Merton, Elda Lucile and Brueckner, Leo John, Numbers Are Fun
 Chicago: Winston 1938 \$.50
 R.G.L.: III - V
 Source: 51,78

This book contains mathematical recreations for the fundamental processes.

Merwin, Decie, Time for Tammie
 New York: Oxford 1946 \$1.50
 R.G.L.: II - III
 Source: 57

Tammie, a little girl in this story could tell time because she played a game about it. When a big dog ran off with her pet teddy a boy named Peter rescued it. Then tammie taught Peter the clock game.

Michaels, Fannie L., All Around Us
 Chicago: Beckley 1942 \$.80
 R.G.L.: I
 Source: 25
 Pp. 6-9 shopping

Mikami, Yoshio and Smith, David Eugene, History of Japanese Arithmetic
 LaSalle: Open Court 1914 \$3.00
 R.G.L.: H.S.
 Source: 7,28

This book shows the nature of mathematics indigenous to Japan and will serve to strengthen the bonds that unite the scholars of the world. It is considered one of the best sources of information on Japanese mathematics.

Miller, B. I., Romance In Science
 Boston: Stratford 1924 No cost
 R.G.L.: H.S.
 Source: 18

This series of lectures is taken from a course called Browse.

Miller, Dayton Clarence, The Science of Musical Sounds
 New York: Macmillan 1916 \$2.50
 R.G.L.: H.S.
 Source: 18,22,33,46,48,52

This book on sound analysis has photographs of many types of harmonic analyzers and sine and cosine curves representing various musical sounds.

Miller, D. D., Popular Mathematics
 New York: Coward 1942 \$3.75
 R.G.L.: H.S. and C.

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Source: 68,82

This popularly written book is intended to help the intelligent layman to understand the history and technique of mathematics. It begins with simple arithmetic and ends with calculus.

Miller, Florence Brooks, A Near Tragedy

Menasha: Mathematics Teacher 1928 Consult library files

R.G.L.: H.S.

Source: 18, Publisher

In this play the tragedy is the loss of mathematics. The climax comes when mathematics is restored.

----., An Idea That Paid

Menasha: Mathematics Teacher 1932 Consult library files

R.G.L.: H.S.

Source: Publisher, 7

The organization of a partnership and of a corporation is explained in this play. It is suited to a class completing a unit in business mathematics.

Miller, George Abraham, Historical Introduction to Mathematical Literature

New York: Macmillan 1916 \$2.25

R.G.L.: H.S.

Source: 17

With laudable regard to perspective this book contains a large amount of information respecting mathematical literature in general, certain historical question, and functional developments in arithmetic, algebra, and geometry. Brief sketches of twenty five mathematicians are given in one of the chapters.

Miller, Jane, Jimmy the Grocery Man

Boston: Houghton 1934 \$.90

R.G.L.: II - III

Source: 4,9,23

This book gives children of primary grades some aspects of community life. Pp. 47-55, 72-75 weights and measures

----., To Market We Go

Boston: Houghton 1935 \$.90

R.G.L.: I - III

Source: 4

Here is given the story of the farmer's market in the north and the open air markets of the south.

Mitchell, Harley W., Man and His Government

Chicago: Follett 1936 \$.88

R.G.L.: VI - VIII

Source: 23

Pp. 13-14, 122-139 taxation

Mitchell, Mrs. Lucy Sprague, Another Here and Now Story Book

New York: Dutton 1937 \$2.00

R.G.L.: T

Source: 23

Pp. 277-282 markets

----., Here and Now Story Book

New York: Dutton 1936 \$2.00

R.G.L.: T

Source: 25

Pp. 177-183 carpentry, 137-140 grocery stores

----., Our Country

New York: Scott 1945 \$1.00

R.G.L.: III

Source: 26

Pp. 168-175, 182-189 wampum

Mohr, Louise Maude, Babylonia and Assyria

Chicago: Rand 1928 \$.60

R.G.L.: IV - VI

Source: 23

Pp. 42-51 money, 58-59 taxation

----., Egyptians of Long Ago

Chicago: Rand 1924 \$.64

R.G.L.: IV - VI

Source: 23

Pp. 49-54 taxation

Monroe, Paul, Cyclopedia of Education

New York: Macmillan 1925 \$25.00 (5 vol.)

R.G.L.: H.S. and C.

Source: 15

These volumes are valuable in libraries of education.

They contain numerous articles on mathematics.

Montgomery, Mrs. E. R. and Bauch, Mrs. D. W., Three Friends

New York: Scott 1944 \$.84

R.G.L.: I - II

Source: 25

Pp. 62-64 shopping, 58-64 stores

Moore, Charles James, Logarithmic Reduction

New York: Ginn 1913 \$1.00

R.G.L.: H.S. and C.

Source: 28

This book is advantageous to students studying analytical

chemistry. It has tables and diagrams to accompany its discussion of logarithms and chemistry.

Moore, Nelle E., On the Other Side of the World

New York: Scribner 1938 \$2.00

R.G.L.: IV - V

Source: 23

Pp. 56-61 shopping in China

Moore, Thomas, Build A Winning Model Yacht

New York: Stokes 1928 \$3.50

R.G.L.: VII - XII

Source: 19

Typical designs, diagrams, illustrations, and plans are given.

Morcomb, Margaret E., Red Feather

Chicago: Lyons 1938 \$.64

R.G.L.: II - III

Source: 25

This is a book of Indian life and tales.

Pp. 72-73 wampum.

More, Louis Trenchard, Isaac Newton

New York: Scribner 1934 \$4.50

R.G.L.: H.S. and C.

Source: 7

This is one of the best single biographies of Sir Isaac Newton.

Morgan, Alfred Powell, Boys Home Book of Science and Construction

New York: Lothrop 1921 \$2.50

R.G.L.: VI - IX

Source: II

Plans and suggestions are given for experiments in chemistry, mechanics, physics. They are clearly worked out by description and diagram.

----., First Electrical Book for Boys

New York: Scribner 1935 \$2.50

R.G.L.: VI - IX

Source: 23

Pp. 198-199 clocks and watches, 89-98 weights and measures

----., Things A Boy Can Do With Electrochemistry

New York: Appleton 1940 \$2.00

R.G.L.: H.S. and C.

Source: Publisher

The history of electrochemistry can be found in this book.

Fascinating and instructive plans are given for performing experiments.

Moritz, R. E., Memorabilia Mathematica or The Philomath's Quotation Book

New York: Macmillan 1914 \$4.00

R.G.L.: H.S.

Source: 7,15

This collection of striking utterances concerning mathematics were made by leading teachers and mathematicians.

Morris, I. H., Geometrical Drawings for Art Students

New York: Longmans 1938 \$1.10

R.G.L.: H.S.

Source: 18

Angles, arcs, tangents, secants, etc. are used in design.

Mossman, Edith L., Mathematics Pageant

Berkeley: Garfield Junior High School 1939 \$.45

R.G.L.: H.S.

Source: 18

This pageant can be given by fifty-eight pupils. It is suggestive and interesting.

Mother Goose, One Two Buckle My Shoe

Kenosha: Lowe 1940 \$.10

R.G.L.: PP and P

Source: 80

This is a book of counting rhymes accompanied by pictures. It is appropriate for pre-school age.

Mott, Carolyn and Baisden, Bernard, Leo, Children's Books on How to Use Books and Libraries

New York: Scribner 1937 \$1.28

R.G.L.: IV - VIII

Source: 23

Pp. 184-186 clocks and watches

Mott-Smith, Geoffrey, Mathematical Puzzles for Beginners and Enthusiasts

Philadelphia: Blakiston 1946 \$1.00

R.G.L.: VI - XII

Source: 28,41,47,71

These puzzles include simple arithmetical processes and also include more difficult mathematics for advanced high school students.

Mulac, Margaret E., Game Book

New York: Harper 1946 \$2.50

R.G.L.: IV - IX

Source: 40

This manual of games is for all occasions. It contains puzzles, brain teasers, card tricks, word games, picnic games, contests, and recreations for the handicapped and convalescents.

Mullen, Francis, Fugitive Materials

Menasha: Mathematics Teacher 1938 Consult library files

R.G.L.: H.S.

Source: Publisher, 18

The article tells of the trend toward the use of enrichment materials in mathematics and makes suggestions for topic headings under which enrichment materials may be filed.

Nash, James Vincent, How the World Lives

Chicago: Follett 1934 \$.88

R.G.L.: IV - VI

Source: 23

Pp. 36-38 money

Nemec, Lois Gadd, Let's Take Turns

New York: Macmillan 1940 \$.70

R.G.L.: I

Source: 25

Pp. 17-19 banks and banking

Newcomb, Simon, Fairyland of Geometry

New York: Harpers Magazine 1902 Consult library files

R.G.L.: H.S.

Source: 18

While there is less chance to use the imagination in mathematics than in any other science, yet geometry is a fairyland, in which the imagination may roam farther, than in Grimm or Anderson. We may do this when we go beyond the limits set by Euclid in adding a fourth dimension to space.

----., Side Lights on Geometry

New York: Harpers 1906 \$2.00

R.G.L.: H.S.

Source: 18

Chapter ten is a discussion of the fourth dimension called "The Fairland of Geometry."

Newhall, Charles W., Recreations in Secondary Mathematics

Menasha: School Science and Mathematics Magazine 1915

Consult library files

R.G.L.: T

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Source: Publisher

This article tells the kinds of mathematical recreations that are suitable for Mathematic Clubs or informal gatherings devoted to games, puzzles, tricks, assigned readings and debates. There is a bibliography of over fifty books and sixty magazines.

Newkirk, Louis Vest, Integrated Handwork for Elementary Schools

New York: Silver 1940 \$3.20

R.G.L.: H.

Source: 25

Pp. 133-135 playing store

Newton, Sir Isaac, Newton's Principia

New York: Adee 1846 Consult library files

R.G.L.: H.S. and C.

Source: 2

This book treats the mathematical principles of natural philosophy to which is added Newton's system of the world; with a portrait taken from the bust in the Royal observatory at Greenwich.

Nida, William Lewis, Inventions and Discoveries of Ancient Times

New York: Laidlaw 1929 \$.92

R.G.L.: V - VIII

Source: 23

Pp. 34-40 calendars, 202-207 markets, 2 44-249 numbers, 40-44 sundials

Nolen, Mrs. Eleanor Weakley, Luck and Pluck

Chicago: Winston 1939 \$1.12

R.G.L.: IV - VI

Source: 24

Pp. 74-85 markets of Mexico

Northrop, Eugene P., Riddles in Mathematics

New York: Van Nostrand 1944 \$3.00

R.G.L.: H.S.

Source: 20, 31, 36, 46, 48, 57, 76, 79

This fascinating book of mathematical paradoxes has been designed for profit as well as recreation. Every reader will enjoy the interesting and puzzling problems. At the same time he will advance in his knowledge of arithmetic, algebra, geometry, and certain phases of higher mathematics.

Noyes, Alfred, Watchers of the Sky

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New York: Stokes 1922 \$2.50

R.G.L.: n.S.

Source: Mathematics Teacher, February 1933 Consult library files

Found in this book is the story of Copernicus, Tycho, Brahe, Kepler, Galileo, Newton, William, Herchel conducts, Sir John Herschel remembers.

Nunn, Thomas Percy, The Teaching of Algebra Including Trigonometry

New York: Longmans 1914 Vol. I \$2.75 (3 volumes)
Vol. II \$2.60, Vol. III \$2.75

R.G.L.: T

Source: 15

This work has many suggestions as to motive and applications. The second and third volumes are composed of exercises to accompany the first volume.

O'Donnell, Mabel and others, Day In and Day Out

New York: Row 1941 \$.72

R.G.L.: P

Source: 25,27

This book includes stories of clothing, toy and pet stores.

----., Down the River Road

New York: Row 1938 \$.72

R.G.L.: II

Source: 25

Pp. 87-127 earning money

----., Friendly Village

New York: Row 1941 \$.88

R.G.L.: II

Source: 25

Pp. 220-228 earning money

----., Here and There

New York: Row 1941 \$.24

R.G.L.: PP

Source: 25,27

Pp. 26-33 playing store, 7-13 stores

----., Hides and Slides

New York: Row 1936 \$.24

R.G.L.: PP

Source: 27

Pp. 37-41 stores

-----., Round About

New York: Row 1936 \$.84

R.G.L.: I

Source: 27

Pp. 182-201 stores

Olcott, Virginia, Erik and Briitta

New York: Silver 1937 \$.96

R.G.L.: V - VI

Source: 23

This book is about children of flowery Sweden.

Pp. 55-59 markets of Sweden

-----., Jean and Franchon

New York: Silver 1931 \$.96

R.G.L.: V - VII

Source: 23

This is a story about children of fair France.

Pp. 63-70 markets of France

-----., Karl and Gretel

New York: Silver 1932 \$.96

R.G.L.: V - VI

Source: 23

This book is about children of Germany.

Pp. 41-56 markets of Germany

-----., Klaes and Jansje

New York: Silver 1933 \$.92

R.G.L.: V - VII

Source: 23

This story is about children of the dikes.

Pp. 112-119 markets of the Netherlands

-----., Market Day and Holiday

New York: Silver 1941 \$1.12

R.G.L.: IV - VI

Source: 24

Pp. 75-96 markets of Italy

-----., Patriotic Plays for Young People

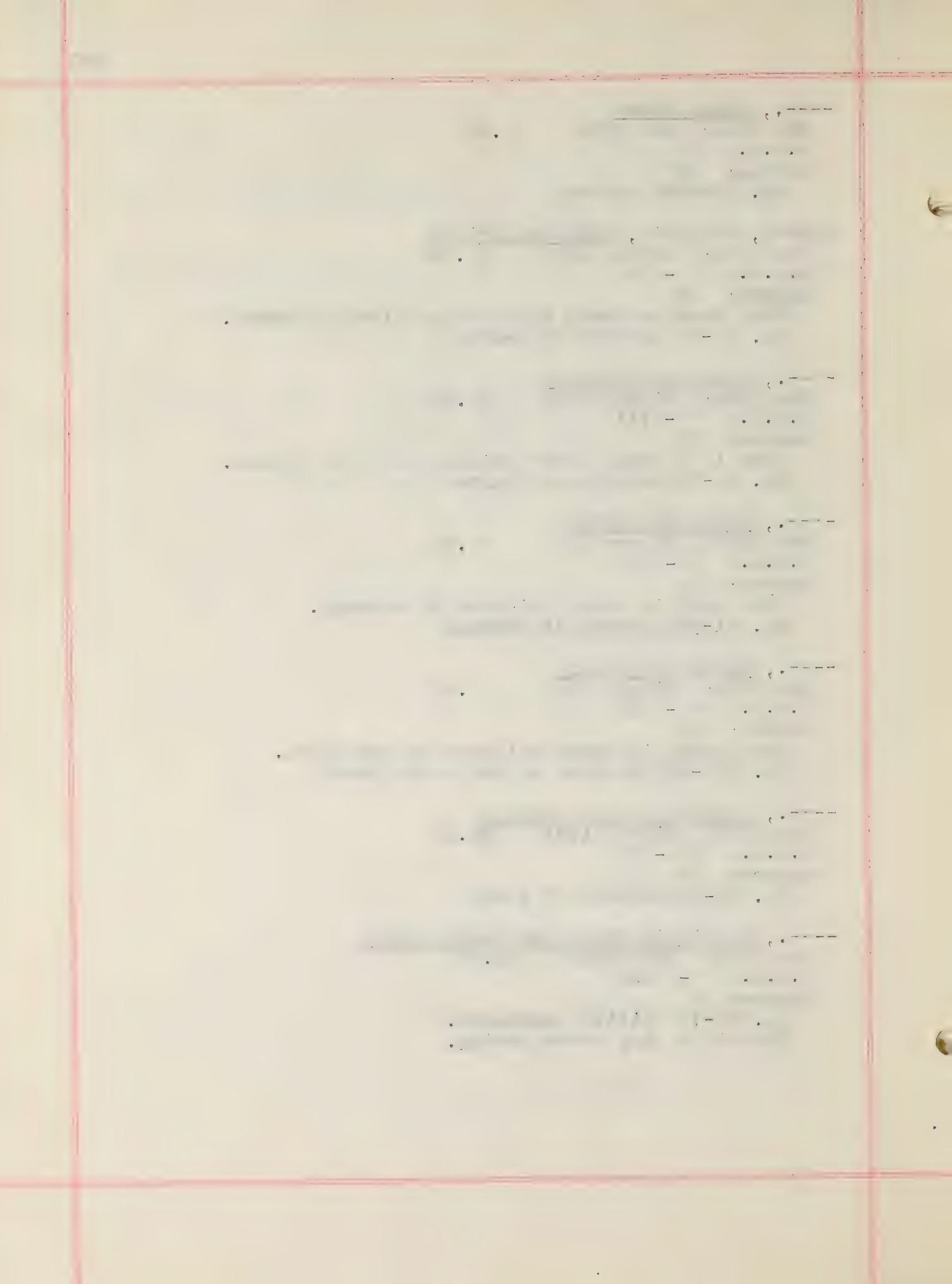
New York: Dodd 1918 \$2.00

R.G.L.: V - VIII

Source: 4

Pp. 64-75 "Little Homemaker."

This is a play about saving.



Olcott, William Tyler, The Book of the Stars

New York: Putnam 1923 \$3.00

R.G.L.: H.S.

Source: 22

Here we find diagrams of all the important constellations.

Ulmstead, E. G. and Grant, E. F., Ned and Nan in Holland

New York: Row 1916 \$.68

R.G.L.: III

Source: 27

Pp. 49-58, 117-119 markets of the Netherlands

Orton, Mrs. Helen Fuller, Grandmother's Cookie Jar

New York: Stokes 1930 \$1.50

R.G.L.: S

Source: 25

Pp. 50-55 clocks, 109-114 grocery stores

Osburn, T. R., Corrective Arithmetic

Boston: Houghton 1924 \$1.60

R.G.L.: H.S.

Source: 15

An analysis of errors in arithmetic can be found here with an attempt to suggest proper remedial work.

Osteyee, George, Mathematics in Aviation

New York: Macmillan 1942 \$.64

R.G.L.: H.S.

Source: Publisher

This review of arithmetic needed for aviation goes back as far as common fractions.

Ostrow, Albert A., The Complete Card Player

New York: McGraw 1945 \$4.75

R.G.L.: H.S.

Source: 28, Publisher

Pp. 247-266 rules for cribbage

Ousley, Odille, Markets

New York: American Education Press 1939 \$.15

R.G.L.: II - III

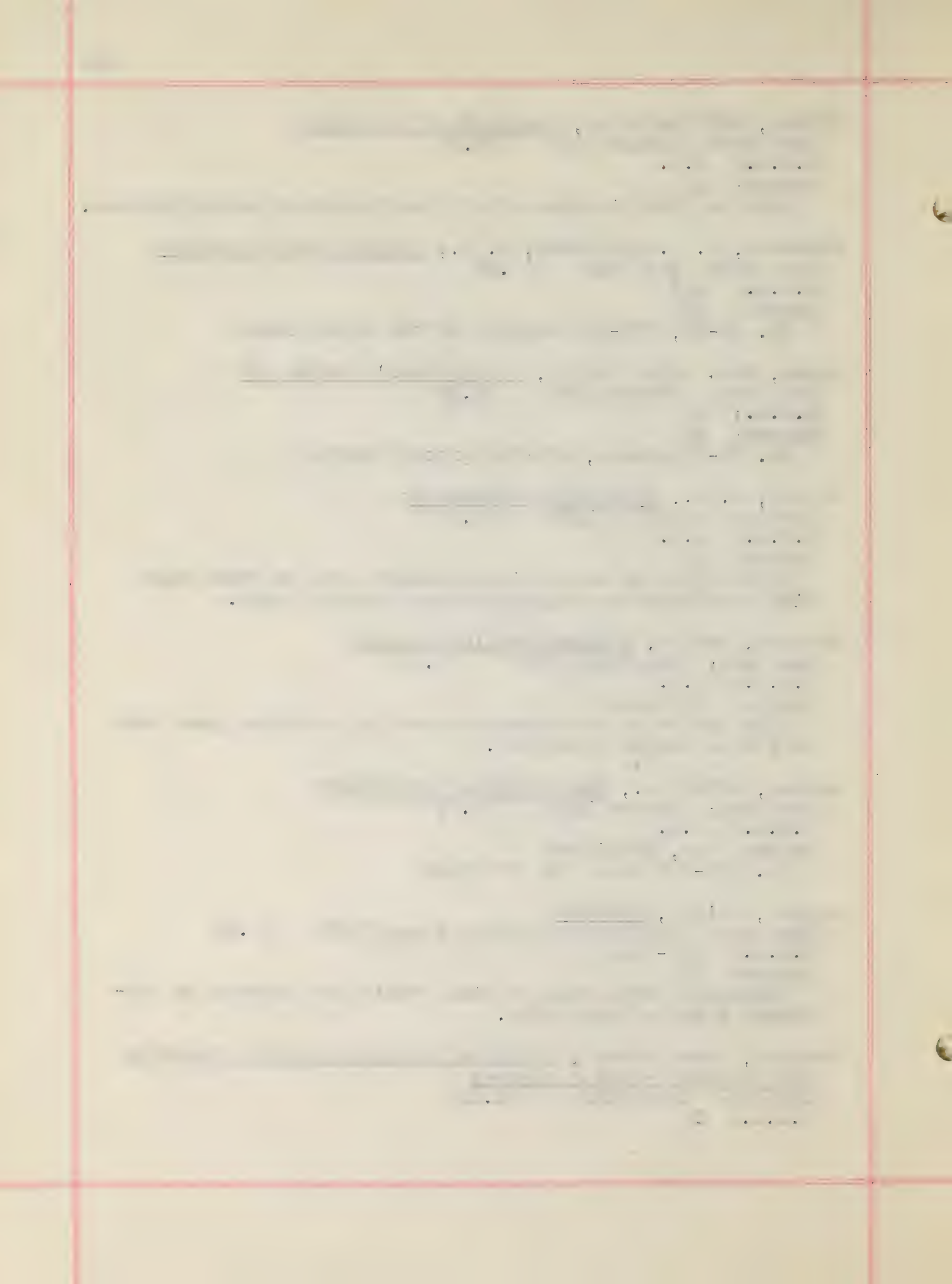
Source: 25

Throughout this book we find stories of markets in different parts of the world.

Overman, James Robert, A Course in Arithmetic for Teachers and Teacher Training Classes

Chicago: Lyons 1923 \$1.60

R.G.L.: T



Source: 15

A review of the subject matter of arithmetic is given here with suggestions for teaching each topic.

Page, Edward Lupton, Technidata

New York: Henley 1946 \$1.50

R.G.L.: H.S. and C.

Source: Publisher

In this little book we find essential data on mathematics, physics, chemistry, mechanics, and engineering.

Palmer, Claude Irwin, Practical Mathematics for Home Study

New York: McGraw 1931 \$4.00

R.G.L.: H.S.

Each arithmetical step is carefully explained and an unusually large and varied list of practical examples are given. This book covers the essentials of arithmetic, algebra, geometry, and trigonometry.

Palmer, Robin, Lost and Found

Boston: Heath 1942 \$.96

R.G.L.: II

Source: 25

Pp. 140-151 trading

Palmer, Mrs. Winthrop B., Abdue, A Story of An Egyptian Boy

New York: Macmillan 1928 \$2.00

R.G.L.: V - VII

Source: 23

Pp. 32-41, 80-90 modern Egyptian markets

Panth, Bhola D., Consider the Calendar

New York: Columbia Teachers College 1944 \$1.25

R.G.L.: H.S. and C.

Source: School Science and Mathematics Magazine, May 1945
A history of the calendar is written in this book.

Parker, Arthur Caswell, Indian How Book

New York: Doubleday 1927 \$2.50

R.G.L.: P, T

Source: 23

Pp. 57-61 wampum

Parker, Bertha Morris, Introductory Course in Science

Chicago: University of Chicago Press 1931 \$1.25

R.G.L.: T

Source: 23

Pp. 55-63 air pressure

----., Rules of the Road

Chicago: American Council of Education 1923 \$.10

R.G.L.: VI - IX

Source: 23

Pp. 29-30 graphs for motor accidents

----., Story of Our Calendar

Chicago: American Council of Education 1923 \$.10

R.G.L.: VI - IX

Source: 8,18,23,75

Graphs accompany this thirty-two page story of our calendar.

----., Story of Numbers

Chicago: American Council of Education 1923 \$.20

R.G.L.: VII - XII

Source: 8,18,23,35,37,44,75,86,89

This thirty-two page story of numbers is accompanied by population graphs.

----., Story of Weights and Measures

Chicago: American Council of Education 1932 \$.20

R.G.L.: VII - XII

Source: 7,8,12,18,37,47

----., Telling Time Through the Centuries

Chicago: American Council of Education 1923 \$.20

R.G.L.: VI - IX

Source: 8,12,18,23,47

This story of clocks, sundials, and watches is suitable for pupils in upper grades.

----., Thermometers

New York: Row 1925 \$.32

R.G.L.: V - VIII

Source: 24

This book tells the story of thermometers and also has pertinent poetry.

Parker, Samuel Chester, "Exercises for Methods of Teaching in the High School"

New York: Ginn 1918 \$2.00

R.G.L.: T

Source: 15

This excellent book is written for general methods of teaching and also contains a specific discussion of mathematics.

Patch, Edith Marion and Harrison, Estelle Howe, Science At Home

4. The fourth part of the document discusses the consequences of failing to comply with the record-keeping requirements. It states that any individual or entity that fails to comply with these requirements may be subject to civil or criminal penalties.

New York: Macmillan 1934 \$.80

R.G.L.: V - VII

Source: 23

Pp. 81-101, 209-228 carpentry, 183-187 thermometers, 229-245 weights and measures

----., Surprises

New York: Macmillan 1933 \$.88

R.G.L.: III

Source: 25, 27

Pp. 292-296 compasses, 90-91 playing store

----., Work of Scientists

New York: Macmillan 1935 \$.80

R.G.L.: VI - VIII

Source: 23

Pp. 37-40 air pressure, 282-378 industries, 77-84 surveying, 31-37 thermometers.

Paterson, Edith Bruce, Everyman's Visit to the Land of Mathematicians

Menasha: Mathematics Teacher 1936 Consult library files

R.G.L.: H.S.

Source: Publisher

This play is an imaginary journey to the abode of some of the great mathematicians. It includes production notes regarding scenery, posters, properties, and costumes.

Patterson, Harold Wallace, Small Boat Making

New York: Macmillan 1916 \$1.25

R.G.L.: VI - XII

Source: 19

This book is written for amateurs and therefore has exact plans for small boat making.

Pearson, C. C. and deMacklot, Z., Adventures in A Big City

New York: Macmillan 1931 \$.84

R.G.L.: III

Source: 27

Pp. 58-63 bakery and toy stores, 126-131 shopping

Pease, J. Van D., This Is The World

Chicago: Rand 1944 \$2.50

R.G.L.: III

Source: 26

P. 61 money

Peddle, John Baily, The Construction of Graphical Charts

New York: McGraw 1910 \$2.00

R.G.L.: H.S.

Source: 15

here we find a treatment of graphical methods of calculation.

Peedie, Jean Murdock, Donald in Numberland

New York: Henkle 1927 \$1.25

R.G.L.: II - III

Source: 64

This clever little story was written by a mother to make arithmetic a pleasure for little folks.

Peet, Creighton, How Things work in the Fifth and Sixth Grade

New York: Holt 1941 \$2.00

R.G.L.: IV - VII

Source: 52

The fundamental principles of physics and mechanics are presented simply and informally for younger readers. Through observation of an experimentation with such common place objects as a bottle opener, egg beater, and lawn mowers, two boys learn about such things as leverage, centrifugal force, and friction. Many photographs illustrate the experiments.

Perdue, Hannah Avis, How Other Children Live

Chicago: Rand 1927 \$.84

R.G.L.: III

Source: 27

Pp. 33-35 silk stores in China

Perkins, Mrs. Lucy Fitch, Dutch Twins

Boston: Houghton 1911 \$.92

R.G.L.: IV - VI

Source: 23

Pp. 29-52 markets of the Netherlands

Perry, Mrs. Evadna Kraus, Art Adventures with Discarded Materials

New York: Noble 1933 \$2.50

R.G.L.: H.

Source: 25

Pp. 136-152 carpentry

Perry, John, Spinning Tops

New York: Macmillan and London: Sheldon 1929 4S 6d

R.G.L.: T

Source: 6,13

Theory and experiment with the gyroscope is given in this book. The use of the gyrostat and gyrocompass is discussed.

Perry, Josephine, Fish Production

New York: Longmans 1940 \$1.50

R.G.L.: VI - VIII

Source: 23

Pp. 87-88 bottling, 76-88 weights and measures

Persing, Ellis C. and others, Elementary Science By Grades Book Four

New York: Appleton 1934 \$.92

R.G.L.: IV - VI

Source: 23

Pp. 151-160 clocks and watches

Petersham, Mrs. Maud Fuller and Petersham Miska, Story Book of Trains

Chicago: Winston 1935 \$.75

R.G.L.: IV - VI and P

Source: 25

Throughout this book instructions are given for signals and signaling.

Phillips, Hubert, (Caliban, Dogberry, Ninespot, Psauds.) Brush Up Your Wits

. Philadelphia: McKay 1936 \$1.25

R.G.L.: H.S.

Source: 6

A miscellany of entertainment can be found here. Included are mathematical recreations and puzzles. There are drawings and diagrams to accompany the entertainment.

Plimpton, Edna and others, Caliban's Problem Book

London: de la Rue 1933 6S

R.G.L.: H.S.

Source: 6,80

This book contains mathematical recreations and puzzles suitable for high school students.

-----, Heptameron

London: Eyre 1936 10S 6d

R.G.L.: H.S.

Source: 28

A miscellany of entertainment can be found here.

-----, Your Workshop

New York: Macmillan 1926 \$1.00

R.G.L.: H

Source: 23

This whole book is devoted to carpentry.

Phin, John, The Seven Follies of Science

New York: Van Nostrand 1912 \$1.50

R.G.L.: H.S. and C.

Source: 16

Here we find a popular account of scientific impossibili-

ties and attempts which have been made to solve them. Some of the following subjects are discussed: Squaring the circle, duplication of the cube, trisection of an angle, perpetual motion, fixation of mercury, and paradoxes.

Pierce, Martha, Mathematical Recreations

Menasha: Mathematics Teacher 1926 Consult library files
R.G.L.: H.S.
Source: 16

Some very interesting recreations are described although historical references are not always accurate.

Pitcher, Wilimina E., Alice In Dozenland

Menasha: Mathematics Teacher 1934 Consult library files
R.G.L.: H.S.
Source: Publisher

In this play Alice finds herself with twelve fingers and an entirely new arithmetic system.

----., The Mathematics Club Meets

Menasha: Mathematics Teacher 1931 Consult library files
R.G.L.: H.S.
Source: 7, Publisher

This historical play is suitable for a high school assembly.

Pollak, Janet, This Physical World

Chicago: Follett 1936 \$.88
R.G.L.: V - VI
Source: 23
Pp. 16-20 air pressure

Polya, Gyorgy, How to Solve It or A New Aspect of Mathematical Method

Princeton: Princeton University Press 1925 \$2.50
R.G.L.: H.S. and C.
Source: Publisher

Methods are suggested for solving problems and entertainment is provided while doing it.

Popular Mechanics Company, The Boy Mechanic

Chicago: Popular Mechanics 1929 \$2.00
R.G.L.: H.S.
Source: 7

In this book we find articles on plane table surveying, camera surveying, and plotting a camera survey.

Frasad, Ganesh, Some Great Mathematicians of the Nineteenth Century: Their Lives and Works (2 volumes)

New York: Stechert 1932 \$2.00
R.G.L.: H.S. and C.

Source: 7

This volume which was first published in Benares, India, contains not only biographies of some nineteenth century mathematicians but all the history of nineteenth century mathematics.

Pratt, Margaret, The Successful Secretary

New York: Lothrop 1946 \$2.00

R.G.L.: H.S.

Source: Publisher

Part One-Basic Training, discusses the duties of the average secretary and gives definite suggestions about getting experience, preparing for interviews, and holding a job.

Part Two is developed through interviews with executive secretaries who have achieved outstanding success and who have some of the most coveted jobs in the country.

Price, Helen, Grocery Store

New York: American Education Press 1941 \$.15

R.G.L.: I -II

Source: 25

This book tells about keeping store.

Pryor, William Clayton, Paper Book

New York: Harcourt 1936 \$1.00

R.G.L.: P

Source: 23

Pp. 44-47 money

----., Streamline Train Book

New York: Harcourt 1937 \$1.00

R.G.L.: P

Source: 23

Pp. 88-91 signaling

----., Train Book

New York: Harcourt 1933 \$1.00

R.G.L.: P

Source: 23

Pp. 32-37 signaling

Pupils of the Lincoln School, Illustrated Mathematical Talks

New York: Columbia Teachers College

R.G.L.: H.S.

Source: 22

This interesting mathematical material is for pupils of Junior High School age.

Putnam, David Binney, David Goes Voyaging

New York: Putnam 1925 \$1.75

R.G.L.: H.S.

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TEL: (773) 936-7000 FAX: (773) 936-7001

Source: 73

David's scientific expedition under Beebe's command is told in this book.

Quine, Willard Van Orman, Mathematical Logic

New York: Norton 1940 \$4.00

R.G.L.: H.S. and C.

Source: 2,28

This book begins with the mathematical logic of George Boole in the middle of the last century to Russell in the present century. It shows in what way mathematical logic has met changes and arrived at its present state.

Quinlan, Myrtle Banks, Day by Day

New York: Allyn 1939 \$.72

R.G.L.: P

Source: 25,35,57,69

Pp. 68-70 arithmetic, 88-91 carpentry

----., Faces and Places

New York: Allyn 1940 \$.92

R.G.L.: H

Source: 25

Pp. 26-35 department stores, 134-140 earning money, 9-13, 20-35 shopping

----., To and Fro

New York: Allyn 1939 \$.88

R.G.L.: I

Source: 25,35,57,69

Pp. 84-85 arithmetic

Raftery, Gerald, The Eternal Triangle

Menasha: Mathematics Teacher 1933 Consult library files

R.G.L.: H.S.

Source: Publisher

This playlet explains scale drawing, the use of the hypsometer and the sextant.

Rangacarya, M. (translator) The Ganita-Sara Sengraha of Mahaviracarya

Madras: Madras Government Press 1925 \$5.00

R.G.L.: H.S. and C.

Source: 15

This book is one of the greatest contributions to the history of Hindu mathematics.

Raster, Alfred, Mathematical Games

Menasha: Mathematics Teacher 1924 Consult library files

R.G.L.: VI - IX

Source: 6,14

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the business to have a clear and concise record of all income and expenses. This will allow the business to track its financial performance over time and identify areas for improvement. The second part of the paper discusses the importance of maintaining accurate records of all assets and liabilities. This will allow the business to track its net worth over time and identify areas for improvement. The third part of the paper discusses the importance of maintaining accurate records of all debts and obligations. This will allow the business to track its financial obligations over time and identify areas for improvement. The fourth part of the paper discusses the importance of maintaining accurate records of all taxes and other legal obligations. This will allow the business to track its financial obligations over time and identify areas for improvement. The fifth part of the paper discusses the importance of maintaining accurate records of all other financial information. This will allow the business to track its financial performance over time and identify areas for improvement.

Described in this article is a version of "Old Maid in Algebra," a blackboard relay, cross word puzzles, zip-zip, "Simon Says," and "Buzz."

Read, Helen S., Mr. Brown's Grocery Store

New York: Scribner 1929 \$.64

R.G.L.: I - II

Source: 4,25,27

Pp. 30-36 playing store

Reed, William Maxwell, Stars for Sam

New York: Harcourt 1931 \$3.00

R.G.L.: VI -VIII

Source: 23

Pp. 98-104 weights and measures

Reed, Zulu, High School Mathematics Clubs

Menasha: Mathematics Teacher 1925 Consult library files

R.G.L.: T

Source: Publisher

Suggestions for mathematics clubs are made in this article. They include tricks, puzzles, poems, songs, contests, games, and puns. In the bibliography is included mathematical contests, history of mathematics, tricks and recreations, plays and dramatizations.

Reid, Norma Pearl, Archimedes, A Mathematical Genius

Menasha: School Science and Mathematics 1941 Consult library files

R.G.L.: H.S.

Source: Publisher

This play was developed as a creative activity in a mathematics class. It includes the discovery of the principle of buoyancy, how Archimedes defended Syracuse after having devised machines to combat the attack. The spirit of Archimedes is shown by the display and use of modern devices.

Reilly, Dorothy Warves, Our Store Book

San Francisco: Wagner 1938 \$.60

R.G.L.: F

Source: 25

Pp. 4-13 grocery stores, 35-36 playing store

Rey, Hans A., (Uncle Gus Pseud.) Cecily G. and the Nine Monkeys

Boston: Houghton 1942 \$2.00

R.G.L.: PP - I

Source: 78

This nonsense book is for ages between four and seven. It describes the adventures of a giraffe and nine homeless monkeys.

1. The first part of the report deals with the general situation of the country and the position of the various groups of the population.

2. The second part of the report deals with the economic situation of the country and the position of the various groups of the population.

3. The third part of the report deals with the social situation of the country and the position of the various groups of the population.

4. The fourth part of the report deals with the cultural situation of the country and the position of the various groups of the population.

5. The fifth part of the report deals with the political situation of the country and the position of the various groups of the population.

6. The sixth part of the report deals with the international situation of the country and the position of the various groups of the population.

7. The seventh part of the report deals with the future of the country and the position of the various groups of the population.

8. The eighth part of the report deals with the conclusion of the report and the position of the various groups of the population.

9. The ninth part of the report deals with the appendix of the report and the position of the various groups of the population.

10. The tenth part of the report deals with the bibliography of the report and the position of the various groups of the population.

11. The eleventh part of the report deals with the index of the report and the position of the various groups of the population.

12. The twelfth part of the report deals with the conclusion of the report and the position of the various groups of the population.

13. The thirteenth part of the report deals with the appendix of the report and the position of the various groups of the population.

14. The fourteenth part of the report deals with the bibliography of the report and the position of the various groups of the population.

15. The fifteenth part of the report deals with the index of the report and the position of the various groups of the population.

16. The sixteenth part of the report deals with the conclusion of the report and the position of the various groups of the population.

Richards, Imagarde and Landazuri, Elena, Children of Mexico
 San Francisco: Wagner 1935 \$1.25
 R.G.L.: V - VI
 Source: 23
 Pp. 228-233 markets in Mexico

Richardson, W. A., Surveying for Schools and Scouts
 London: George Philip 1936 6S
 R.G.L.: VIII - XII
 Source: 6
 This elementary approach to surveying is accomplished by means of scale drawings and simple instruments.

Ridgway, Marion V., How Far
 Philadelphia: McKay 1945 \$.75
 R.G.L.: I - III
 Source: 72
 Size, distance, and measurement are discussed in this book.

Rietz, Henry Lewis, Handbook of Mathematical Statistics
 Boston: Houghton 1924 \$4.00
 R.G.L.: H.S.
 Source: 15
 This book is a technical and scholarly mathematical discussion.

Ringer, Edith Hope and Downey, Low Chase, City and Country
 Chicago: Lippincott 1930 \$.64
 R.G.L.: I
 Source: 27
 Pp. 37-39 shopping

----., Home
 Chicago: Lippincott 1930 \$.56
 R.G.L.: P
 Source: 27
 Pp. 40-42 bakery, grocery, and meat stores

----., School Days
 Chicago: Lippincott 1930 \$.68
 R.G.L.: II
 Source: 27
 Pp. 67-72 markets, 75-89 market stories, 46-53 sandwich sales

Roberts, Mary E., Mr. Arithmetic Steps In
 New York: French 1946 \$.30
 R.G.L.: VI - VIII
 Source: Publisher
 This play requires six males and one female. It lasts

twenty minutes. After Mr. Arithmetic takes away all arithmetical knowledge from several boys, they find themselves very much handicapped. The boys are in despair until the knowledge is returned.

Rocheleau, William Francis, Minerals

Chicago: Flanagan 1929 \$.76

R.G.L.: V - VII

Source: 4

Pp. 192-195 coinage

Rogers, Frances and Beard, Alice, Heels, Wheels and Wire

New York: Stokes 1935 \$1.75

R.G.L.: V - VII

Source: 4, 23

This is a story of messages and signals.

Pp. 146-151 clocks, 132-197 signals

Row, T. Sundara or (Sundara, Rao T.), Geometric Exercises in Paper Folding

LaSalle: Open Court 1902 \$1.00

R.G.L.: C.

Source: 18, 22, 37, 67, 76

This ingenious work shows how, by means of simple paper folding, a considerable amount of geometry may be learned. It also will stimulate interest in polygons.

Rowe, Dorothy, Traveling Shops

New York: Macmillan 1935 \$2.00

R.G.L.: III

Source: 9

Ten stories of Chinese child life are told here. Each story takes place in a different shop.

Ruch, Giles Murrell, Knight, R. B., Studebaker, J. W., Mathematics and Life

New York: Scott 1937 \$.88

R.G.L.: H.S.

Source: 2, Publisher, 28

This instructive book suggests ways of earning a living, managing the family's money, and taking care of the family savings.

Rudin, Jacob Philip, So You Like Puzzles

New York: Stokes 1936 \$1.00

R.G.L.: VIII - X

Source: 52

Forty-four varieties of brain benders with numerous diagrams can be found in this book.

Rue, Mrs. Flora Clark, From Barter to Money

New York: Row 1941 \$.32

R.G.L.: IV - VI, P

Source: 24

The history of trade and means of exchange is treated in this book in a simple way.

Rugg, Harold Ordway and Krueger, Louise, Communities of Men

New York: Ginn 1936 \$.96

R.G.L.: IV - VI

Source: 23

Pp. 116-125 grocers, 82-89 map making, 174-177 time, 98-99 weights and measures

-----., Man at Work: His Arts and Crafts

New York: Ginn 1937 \$1.20

R.G.L.: V - VII

Source: 23, 42, 75

Pp. 532-550 calendars, 468-472, 423-446 measuring instruments, 464-465 metric system, 68-74 shapes used in building, 524-531 standard time, 491-501 sundials, 72-74, 87, 421-480 weights and measures

-----., Man at Work: His Industries

New York: Ginn 1937 \$1.20

R.G.L.: V - VII

Source: 23, 75

Pp. 482-490 banks, 481-550 clocks, 67-81, 166-168 engineering and architecture, 466-490 money, 400-446 signals

-----., Nature Peoples

New York: Ginn 1936 \$.88

R.G.L.: III - V

Source: 23

Pp. 208-212 money

-----., Statistical Methods Applied to Education

Boston: Houghton 1917 \$2.50

R.G.L.: T

Source: 15

The methods and uses of statistics are explained and illustrated in this book.

Rulon, P. J., (Julian Longstreet, Pseud.) Brain Teasers

Boston: Page 1932 \$1.50

R.G.L.: C.

Source: 2, 6, 84

The greater part of this book includes mathematical puzzles for advanced students.

Russell, Bertrand Russell, Introduction to Mathematical Philosophy

New York: Ginn 1919 \$4.00

R.G.L.: H.S.

Source: Book Review Digest

This work contains a more or less popular exposition of some of the work done by Cantor, Frege, Peano, Russell, and others on the logical formulation of the principles of mathematics.

----., Mysticism and Logic and Other Essays

New York: Longmans 1929 \$3.00

R.G.L.: H.S.

Source: 18

In this book can be found chapters on mathematics and metaphysics, mysticism and logic, the place of science in a liberal education, a free man's worship, and the study of mathematics.

----., Principles of Mathematics

New York: Macmillan 1903 \$3.50

R.G.L.: H.S. and C.

Source: 72

Included in the contents of this book are the following: The indefinables of mathematics, number quantity, infinity and continuity, space, matter and motion, the logical and arithmetical doctrines of Frege.

Russell, Mrs. Mary McSorley, Si, Si, Rosita

New York: American Book 1936 \$.60

R.G.L.: III

Source: 25

In this can be found stories about the markets of Mexico.

Salisbury, Ethel Imogene, Story of Our United States

Boston: Little 1935 \$1.20

R.G.L.: V - VII

Source: 23

Pp. 222-228 taxation

Salomon, Julian Harris, Book of Indian Crafts and Indian Lore

New York: Harper 1928 \$3.50

R.G.L.: P, T.

Source: 23

Pp. 107-110 wampum

Sample, Anna Eliza, Fifty Number Games

Chicago: Beckley 1927 \$.85

R.G.L.: I - III

Source: 12

Besides fifty number games for primary grades, the author

has included the study and teaching of arithmetic.

Sanford, Vera, A Short History of Mathematics

Boston: Houghton 1930 \$3.25

R.G.L.: H.S.

Source: 7,8,12,20,22,31,37,42,62

A survey of the history of mathematics is made here especially elementary mathematics.

----., History and Significance of Certain Standard Problems in Algebra

New York: Columbia Teachers College 1927 \$1.50

R.G.L.: H.S. and C.

Source: 7

This thesis was written at Columbia Teachers College in partial fulfillment for a Ph. D. It includes problems and exercises to prove the thesis.

Sazelby, Frank Moulton, Practical Mathematics

New York: Longmans 1927 \$1.50

R.G.L.: H.S.

Source: Library of Congress Catalogue

Mathematics for everyday needs can be found here. Diagrams and mathematical tables accompany the contents. Suggestions for reading materials are given. This is a revised edition from the 1903 and 1913 copies.

Schaaf, William Leonard, Mathematics for Everyday Use

New York: Garden City 1942 \$.69

R.G.L.: H.S.

Source: 28

This simple exposition of the basic principals of mathematics includes a guide to save time and money at home and in business.

Schenk, Esther Mary, Valentine Day

Chicago: Lyons 1934 \$.40

R.G.L.: I - II

Source: 25

Pp. 12-16 earning money

Schilpp, Paul Arthur, (editor) The Philosophy of Albert North Whitehead in The Library of Living Philosophers

Chicago: Northwestern University Press 1941 \$4.00

R.G.L.: H.S. and C.

Source: Mathematics Teacher 1942

The three essays found in this book are: "Mathematics and the Good," "Immortality," and "The Autobiography of Albert North Whitehead."

----., The Philosophy of Bertrand Russell

Chicago: Northwestern University Press 1944 \$4.00

R.G.L.: H.S. and C.

Source: School Science and Mathematics, 1945

The autobiography of Bertrand Russell and his intellectual journeys in history, mathematics, and philosophy have been written in this book.

Schlierholz, T., A Number Play in Three Acts

Menasha: Mathematics Teacher 1924 Consult library files

R.G.L.: H.S.

Source: 6,17

This play is based on number stories of long ago by David Eugene Smith.

Schlink, Frederick John and Chase, Stuart, Your Money's Worth

New York: Macmillan 1927 \$2.00

R.G.L.: H.S.

Source: School Science and Mathematics Magazine 1931

In this book is given suggestions for computing the real cost and value of what we buy.

Schmelter, Alice, and West, Roscoe L., Timmy Tommy Uses Numbers

New York: Scribner 1940 \$.48

R.G.L.: II

Source: 80

This is a second book in number work. Addition and subtraction is taught by using real life situations.

----., The Story of Gus: A Child's First Number Book

New York: Scribner 1939 \$.44

R.G.L.: I

Source: 80

This introduction to numbers is carried out by means of real life situations that require counting.

Schnell, Leroy H. and Crawford, Mildred, Clear Thinking: An Approach Through Geometry

New York: Harpers 1938 \$1.60

R.G.L.: H.S.

Source: 37

Especially written for high school pupils who are slow in geometry, this book covers a year's work in plane geometry. The author's purpose is an attempt to develop the ability to learn to think first in non-geometrical situations.

Schnittkind, Henry Thomas, Mathematics Made Easy

New York: Garden City 1946 \$1.00

R.G.L.: H.S.

Source: 28,33,36

This book has been organized on a unit basis for students of secondary schools. It covers basic concepts of impor-

tance in many occupations. Practical applications are stressed as opposed to theory. There can be found here extensive work on budgeting, taxation, and insurance.

Schorling, Raleigh, A Mathematical Contest
Menasha: School Science and Mathematics 1915 Consult
library files

R.G.L.: T

Source: 6, Publisher

A description is given here of a mathematical contest between the Hyde Park High School and the University High of Chicago:

----., and Clark, John R., Mathematics in Life
New York: World Book Unit A - \$.24, Unit B - \$.28,
Unit C - \$.24, Unit D - \$.28

R.G.L.: VI - XII

Source: Publisher

This book is suitable for non-academic pupils who have completed the usual elementary course in arithmetic.

----., Measurement in Modern Life and in the Long Ago
New York: World Book 1935 \$.28
R.G.L.: H.S.

The chapter headings of this book are as follows: The Meaning of Measurement, Measuring in the Long Ago, The Struggle for More Exact Standards, Man Shoves the Error to the Next Decimal Place, and How Man Learned to Use Number in the Long Ago.

Schubert, Hermann, C. H., Mathematical Essays and Recreations
LaSalle: Open Court 1917 \$.75
R.G.L.: C.
Source: 12,22

In these essays the fourth dimension is treated more seriously than usual. The essays are more scholarly than most popular works of this kind in English.

Schultz, Charles W., Universal Dollar Tables
London: Wilson 1874 Consult library files
R.G.L.: H.S. and C.
Source: Library of Congress Card Catalog, 28

This work covers all exchanges between the United States and Great Britain, France, Belgium, Switzerland, Italy, Spain, and Germany. There is an introductory chapter on coinage and exchanges of the world.

Schultze, Arthur, The Teaching of Mathematics in Secondary Schools
New York: Macmillan 1912 \$1.80
R.G.L.: T

Source: 15

This work contains many helpful suggestions for the teacher.

Scott, Erma, Geometry Humanized

Menasha: Mathematics Teacher 1928 Consult library files

R.G.L.: H.S.

Source: 17, Publisher

This cleverly written play was given by a geometry class in Greeley, Colorado. The figures become humans, and tell their purpose and use. A geometrical vocabulary is stressed throughout the play. Several puns are included which makes for more interest and enthusiasm. It is most entertaining and educational.

Scott, Lena Becker, Dawn: Boy of the Pueblos

Chicago: Winston 1935 \$2.00

R.G.L.: V - VII

Source: 23

Pp. 30-38 trading posts

Scott, William Amasa, Money and Banking

New York: Holt 1926 \$3.00

R.G.L.: H.S. and C.

Source: 7

Here we find an introduction to the study of modern currencies.

Sears, Paul Bigelow, This Useful World

New York: Scott 1942 \$1.16

R.G.L.: V - VII

Source: 24

Pp. 333-345 cost and standard of living, 243-249 money

Seaver, Charles Hill and Graham, Frank Dunstone, Banking: How It Serves Us

New York: Newson 1937 \$.80

R.G.L.: H.S. and C.

Source: Publisher

The history of banking and the various banking methods in use around the world today are concisely summarized in this book.

Secrist, Mrs. Elizabeth Hough, Red Letter Days

Philadelphia: Macrae 1940 \$2.00

R.G.L.: V - VIII

Source: 24

In this story of holiday customs, a discussion of the calendar is given.

The first part of the paper discusses the importance of the study and the objectives of the research. It then proceeds to a literature review, followed by a description of the methodology used in the study. The results of the study are presented in the next section, followed by a discussion of the findings and their implications. The paper concludes with a summary of the main points and a list of references.

The study was conducted in a laboratory setting, using a sample of 100 participants. The participants were divided into two groups, each receiving a different treatment. The results of the study showed that the treatment group received the intervention showed significantly better results than the control group. This finding has important implications for the field of research, as it suggests that the intervention may be effective in improving outcomes. The study also identified several limitations, including the small sample size and the lack of a long-term follow-up. Future research should aim to address these limitations and further explore the effectiveness of the intervention.

The study was funded by the National Institutes of Health, and the results were published in the Journal of Health Care. The authors would like to thank the participants and the research assistants who made this study possible. The authors also acknowledge the support of the National Institutes of Health and the Journal of Health Care.

Sedgewick, William Thompson and Tyler, Harry Walter, A Short History of Science

New York: Macmillan 1917 \$2.50

R.G.L.: H.S.

Source: 22

In this book we may find a section on the history of mathematics. The history goes as far back as the ancient Babylonians and Assyrians.

Seton, Ernest Thompson, Book of Woodcraft

New York: Doubleday 1912 \$2.00

R.G.L.: VI - VIII

Source: 4

Mr. Seton gives in this book, a comprehensive collection of customs, laws, amusements, and activities that are carried on in his camps.

Shackelford, Frederick, Earth and Sky Trails

San Francisco; Wagner 1934 \$1.00

R.G.L.: VI - VIII

Source: 23

Pp. 88-89 barometers, 80-89 thermometers

Shibli, Jabir, Recent Developments in the Teaching of Geometry

Indiana: Pennsylvania State Teachers College 1932 \$2.25

R.G.L.: T

Source: School Science and Mathematics Magazine 1933

The importance that geometry has played in educational processes, the changes which Euclid's original organization has undergone, and problems of geometry and their solutions, showing the significance of geometry in education, have been written in this book.

Shields, Bert A., Principles of Air Navigation

New York: McGraw 1943 \$2.20

R.G.L.: H.S.

Source: School Science and Mathematics Magazine, 1944

This book shows that the author realized that students have the ability to master subjects in which they are interested. The book is illustrated throughout. One-fifth of the book is given over to maps and map reading.

Shuster, Carl N. and Bedford, Fred L., Field Work in Mathematics

New York: American Book 1935 \$1.20

R.G.L.: VII - XII

Source: 8, 30, 37, 76, Publisher

In this book we find chapters on scouting. It gives instructions on how to measure lines and angles out-of-doors. The supplementary material is on the high school level. Included also is an introduction to college engineering.

THE UNIVERSITY OF CHICAGO

PHILOSOPHY DEPARTMENT

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Shuttlesworth, Joseph C., The Use of Enrichment Materials in Secondary Mathematics

Washington, D. C.: National Education Association Proceedings 1937 Consult library files

R.G.L.: T

Source: Publisher

This article stresses the necessity of laboratory work in mathematics. In this way mathematics can be taught concretely and should therefore take on more meaning than it would by learning theorems, and thereby arriving at the right answer to several textbook problems.

Simon, Mrs. Charles May Hogue, Popos Miracle: A Story of Mexico
New York: Dutton 1938 \$2.00

R.G.L.: V - VI

Source: 23

Pp. 80-93 markets of Mexico

----., Roundabout

New York: Dutton 1931 \$2.00

R.G.L.: IV - VI

Source: 24

In this book are included stories of business depression.

Skerrett, Josephine, A Mathematical Nightmare

Menasha: Mathematics Teacher 1929 Consult library files

R.G.L.: H.S.

Source: 17, Publisher

This play shows that business and pleasure must cease without mathematics and therefore the conclusion is reached that mathematics is a necessary evil.

Skinner, Ernest Prown, Mathematical Theory of Investment

New York: Ginn 1924 \$3.40

R.G.L.: H.S. and C.

This book gives the application of algebra of investments. It will be helpful to teachers and students in a commercial high school.

Skinner, Eleanor Louise, Fun In Town And Country

New York: American Book 1940 \$.80

R.G.L.: II - III

Source: 25

Pp. 68-73 carpentry

----., Fun In Our Busy World

New York: American Book 1940 \$.84

R.G.L.: III

Source: 25

Pp. 152-173 earning money, 152-173 markets, 266-270 shopping

Slaught, Herbert E., The Evolution of Numbers

Menasha: Mathematics Teacher 1928 Consult library files

R.G.L.: H.S.

Source: 17, Publisher

This play shows the evolution of our number system by the addition of negative numbers, zero, fractions, and irrationals.

Sloane, T. O'Connor, Arithmetic of Electricity

New York: Henley 1903 \$1.50

R.G.L.: H.S. and C.

Source: Publisher

In this book is given the units of measurement used in electrical and mechanical work. The electrical calculations are reduced to a series of rules. Each rule is illustrated by one or more practical problems with detailed solution of each one.

----., Rapid Arithmetic

New York: Van Nostrand 1922 \$1.50

R.G.L.: VII - XII

Source: 6,7,16

An exposition of quick and special methods of arithmetical calculations can be found here. Also is given a short collection of oddities and recreations in the science of numbers. The author suggests a dozen or more methods of adding, subtracting, multiplying, and dividing. A fascination in puzzles and curiosity of numbers is also included.

----., Licks, H. E., Thompson, J. E., Speed and Fun With Figures

New York: Van Nostrand 1939 \$3.65

R.G.L.: H.S. and C.

Source: 6,33,44,72

The contents of this book include: Rapid arithmetic by T. O'C. Sloane, a manual of the slide rule by J. E. Thompson, and recreations in mathematics by H. E. Licks.

Slosson, Edwin Emery, Easy Lessons in Einstein

New York: Harcourt 1920 \$1.35

R.G.L.: H.S.

Source: 15

This is a book which a reader, without any extended knowledge of mathematics, can appreciate. It includes a discussion of the more intelligible features of the theory of relativity with an article by Albert Einstein and also a bibliography.

Smallidge, Olive E., and Paxson, Frederick L., Builders of Our Nation

Boston: Houghton 1934 \$1.40

R.G.L.: V - VII

Source: 23

Pp. 614-629 business depression, 300-304 taxation

Smedley, Eva Almeda and Olson, M. C., Story Games With Pictures and Numbers

Chicago: Hall 1938 .48

R.G.L.: I - II

Source: Publisher

There is novelty, fascination, and a fresh source of inspiration in each lesson. The material is presented in a colorful and compelling way. The number work, writing, drawing, and spelling is built around subject matter that children love.

Smith, Alice K., The Case of Matthew Mattix

Menasha: Mathematics Teacher 1933 Consult library files

R.G.L.: H.S.

Source: 7, Publisher

This play shows what may happen if we did away, with "Matthew Mattix."

----., A History of Arithmetic, (Volume I)

New York: Ginn 1923 \$5.00

R.G.L.: H.S.

Source: 7,22,37

The author gives a general survey in this volume with emphasis on racial achievement. Numerous illustrations are given which are exceedingly useful.

Smith, David Eugene (David Dunham, Pseud.) A History of Mathematics, (Volume II)

New York: Ginn 1925 \$4.40

R.G.L.: H.S.

Source: 15,22,37

In this volume, the author has given the history of special branches of arithmetic such as: algebra, computation, geometry, numerals, and trigonometry.

----., A Source Book in Mathematics

New York: McGraw 1929 \$5.00

R.G.L.: H.S. and C.

Source: 7,28, Publisher

Reprints of translations of documents, important in the history of mathematics, can be found here. Introductory and explanatory are given.

This book contains also a translation of the first treatise on decimals, Robert Recorde's defense of the study of arithmetic, and translations from the first printed arithmetics.

----., Mathematics: Our Debt to Greece and Rome

New York: Longmans 1923 \$1.75

R.G.L.: H.S.

Source: 7,12

This exceedingly readable and interesting book gives a fascinating history of mathematics in Greece and Rome.

----., Number Stories of Long Ago

New York: Ginn 1919 \$.80

R.G.L.: IV - VIII

Source: 4,6,7,8,10,12,20,31,33,34,37,41,43,52,59,61,64,65,
75,76,78,82,84,86,89

Interesting stories on the history of arithmetic in many countries can be found here. The arithmetical history of the Arabians, Belgians, Chinese, English, Egyptians, Germans, Greeks, Hebrews, Hindus, Italians, Moors, and Romans is clearly told.

This account was primarily written for children but adults will enjoy it.

The final chapters contain recreations and puzzles.

The illustrations are excellent and the style is delightful.

----., Poetry of Mathematics and Other Essays

New York: Scripta Mathematica 1934 \$.75

R.G.L.: H.S. and C.

Source: 12

In this book a discussion is made of the similarity in characteristics of poetry and mathematics.

----., Portraits of Eminent Mathematicians

New York: Scripta Mathematica 1936 \$3.00

R.G.L.: H.S. and C.

Source: 12

Besides the portraits of eminent mathematicians; brief biographical sketches are given of each one. The following portraits and biographical sketches are included: Archimedes, Aristotle, Bacon, Berkeley, Cardan, Cauchy, Cayley, Copernicus, deFermat, deLaPlace, Descartes, Epicurus, Euclid, Euler, Galilei, Gauss, Hamilton, Jacobi, Kant, Kepler, Keyser, Lagrange, Leibniz, Lobachevsky, Napier, Newton, Pascal, Plato, Poincare, Pythagoras, Sanders, Spinoza, Sylvester, Viete, Wilhelm.

----., Rara Arithmetica

New York: Ginn 1908 \$5.00

R.G.L.: H.S. and C.

Source: 2,7

Catalogued in this book are the arithmetics printed prior to 1600 A.D. that can now be found in the library of George A. Plimpton in New York City. It is particularly valuable for facsimiles of pages of early printed arithmetics

showing numerals and methods of computation.

----., The Progress of Arithmetic in the Last Quarter of a Century

New York: Ginn 1923 \$.72

R.G.L.: T

Source: 2

This book is a supplement to the history of mathematics.

----., The Sumario Compendioso of Brother Juan Diez; The Earliest Mathematical Work of the New World

New York: Ginn 1921 \$4.00

R.G.L.: H.S. and C.

Source: 2

The earliest mathematical works of the New World can be found here. The text is given in facsimile with the English translation on the opposite pages.

----., Wonderful Wonders of One-Two-Three

New York: McFarlane 1937 \$1.00

R.G.L.: IV - VIII

Source: 4,7,31,33,34,37,57,61,64,65,74,76,78,80,82,86

The contents of this book are as follows: historical background of numbers, numbers of other lands, number puzzles, and magic squares.

----., and Ginsberg, Jekuthiel, A History of Mathematics in America

LaSalle: Open Court 1934 \$2.00

R.G.L.: C.

Source: 7,12,54,76

In this book, the authors have stated the achievements of mathematicians from 1875-1900.

----., Numbers and Numerals

New York: Columbia University 1937 \$.35

R.G.L.: VII - XII

Source: 6,7,8,10,11,33,35,37,57,80,86

In this little book is given the origin of our present day system of numbers. It also explains the Roman, Chinese, and Japanese abacus. Number pleasantries are featured too. The chapter headings are as follows: Learning to Count, Naming the Numbers, From Numbers to Numerals, From Numerals to Computation, Fractions, Story of a Few Arithmetic Words, and Mystery of Numbers.

----., and Karpinski, Louis C., Hindu-Arabic Numerals

New York: Ginn 1911 \$1.60

R.G.L.: H.S.

Source: 7,12,76

This standard work on the subject gives the history of our numerals with facsimiles.

- ., and Latham, L., (translators) Descartes' La Geometrie
 LaSalle: Open Court 1925 \$4.00
 R.G.L.: H.S.
 Source: 7

This volume, which would be an addition to any mathematics library, contains reproductions from the original French edition which was published in 1637. It is particularly useful for classes in advanced algebra.

- ., Luse, Eva May and Morse, Edward Longworth, Talks and Talks in Numberland
 New York: Ginn 1929 \$.72
 R.G.L.: III
 Source: 80

This book, which includes the fundamentals in whole numbers, is illustrated by Cornelia J. Hoff. Information is given to the teacher on the study and teaching of mathematics.

- ., and others, Number Games and Number Rhymes
 New York: Columbia Teachers College 1912 \$.30
 R.G.L.: T
 Source: 7, 76, 79

One of the most complete collections of number games and number rhymes to be had can be found in this book.

- ., and Reeve, William D., Homemade Instruments
 New York: Ginn 1927 \$2.00
 R.G.L.: H.S.
 Source: 7

Chapter Twelve describes the construction and use of certain surveying instruments.

- ., Mathematical Recreations in The Teaching of Junior High Mathematics
 New York: Ginn 1927 \$2.00
 R.G.L.: T
 Source: 7

A variety of number, problem, algebraic, and geometric recreations, not listed elsewhere, can be found in this book.

- Smith, Edith Lillian, Everyday Science Projects
 Boston: Houghton 1925 \$.96
 R.G.L.: VI - VIII
 Source: 23

Pp. 302-303 air pressure, 20 barometers, 69-71 sundials, 118-119 thermometers

Smith, Elmer Boyd, Chicken World

New York: Putnam 1910 \$3.00

R.G.L.: I - III

Source: 4

The graphic picture story of an anxious mother hen and her brood in their farmyard home is given here.

Smith, Jeannette, A Look at the Weather

New York: Silver 1938 \$.16

R.G.L.: III

Source: 25

Pp. 7-9 air pressure, 10-12 barometers, 6-7 thermometers

----., Carl's Mother

New York: Silver 1938 \$.12

R.G.L.: P

Source: 25

Pp. 10-11 grocery stores

----., From Farm and Garden

New York: Silver 1938 \$.12

R.G.L.: P

Source: 25

Pp. 8-11 markets

----., In A Department Store

New York: Silver 1938 \$.12

R.G.L.: II

Source: 25

This book is devoted to business in a department store.

Smith, Nila Banton, Distant Doorways

New York: Silver 1940 \$1.16

R.G.L.: IV - V

Source: 24

Pp. 124-126 calendars, 107-111 markets

----., Down the Road

New York: Silver 1945 \$.92

R.G.L.: I - II

Source: 26

Pp. 10-19 shoe stores

----., Frontiers Old and New

New York: Silver 1940 \$1.20

R.G.L.: V - VI

Source: 24

Pp. 470-475 markets in Mexico

----., In New Places

New York: Silver 1945 \$1.00
 R.G.L.: II - III
 Source: 26
 Pp. 22-26 earning money

----., Round About You
 New York: Silver 1934 \$.80
 R.G.L.: II
 Source: 23, 27
 Pp. 97-99 earning money, 70-73 stores

----., World Around Us
 New York: Silver 1938 \$.88
 R.G.L.: II - III
 Source: 25, 35, 57, 69, 75
 Pp. 104-110 counting, 37-39 markets

----., Yesterday and Today
 New York: Silver 1939 \$.88
 R.G.L.: IV - V
 Source: 23
 Pp. 142 clocks and watches

Smith, Joseph Russell, Home Folks: A Geography For Beginners
 Chicago: Winston 1937 \$1.16
 R.G.L.: III - V
 Source: 23
 Pp. 135-137 grocers, 154-161 markets

Smith, Mrs. Susan Cowles Grant, Made in Mexico
 New York: Knopf 1930 \$2.00
 R.G.L.: T
 Source: 23
 Pp. 21-28 markets in Mexico

Smith, T., Euclid, His Life and System
 New York: Scribner 1902 \$2.00
 R.G.L.: H.S. and C.
 Source: 16
 This author gives here a biography of Euclid and relates his contributions to education.

Smothers, Arthur E., Clark, Maryl, Newlin, Wallace A., The Adventures of X
 Boston: Heath 1916 \$.48
 R.G.L.: H.S.
 Source: 7
 This play deals with the land of algebra.

Smyth, H. D., A General Account of the Development of Methods of Using Atomic Energy for Military Purposes

Washington, D. C.: Supt. of Documents 1945 \$.35

R.G.L.: H.S. and C.

Source: School Science and Mathematics, 1946

This report represents the administrative history of the atomic bomb project and describes in rather complete detail the basic scientific knowledge on which the several developments were based.

Snow, Bonnie E. and Froehlich, Hugo B., A Hundred Things A Girl Can Make

Chicago: Lipincott 1922 \$2.50

R.G.L.: V - IX

Source: 19

Problems in this book are of artistic interest and commercial value.

Snyder, Ruth L.,

Menasha: Mathematics Teacher 1929 Consult library files

R.G.L.: H.S.

Source: Publisher

This play in two acts was written by a high school student on the theme "If there were no mathematics."

Sommers, Hobart, Living Mathematics

Chicago: Follett 1943 \$2.50

R.G.L.: H.S.

Source: 68

The reason for writing this book was to provide adults with a substantial review of the highlights of mathematics from arithmetic to calculus without leaning too much on the textbook side. This survey is for the group of people who wish to strengthen their mathematical foundation without working hours over hundreds of tedious problems.

Sparhawk, Norman F., Numbergrams

Boston: Van Press 1932 \$1.25

R.G.L.: H.S.

Source: 2,6

This book contains mathematical recreations.

Sperling, Abraham and Stuart, Munroe, Mathematics Made Easy

New York: Kenmore 1943 \$1.49

R.G.L.: H.S.

Source: 72

This book is primarily a text but particularly valuable to high school students and adults who wish a review of fundamentals.

Spicer, Dorothy, Gladys, Book of Festivals
 Asilomas, Cal.: Woman's Press 1937 \$3.00
 R.G.L.: T
 Source: 23

Information about the following calendars may be found in this book: Armenian, Chinese, Gregorian, Hindu, Jewish, Julian, Mohammedan.

Stack, Herbert James, and Huston, Geraldine, It's Fun To Be Safe
 Chicago: Beckley 1942 \$.80
 R.G.L.: III
 Source: 25
 Pp. 81-101 shopping, 27-34 signals and signaling

Stark, William E., Measuring Instruments of Long Ago
 Menasha: School Science and Mathematics 1910 Consult library files
 R.G.L.: H.S.
 Source: 7, Publisher
 For a very fine discussion of measuring instruments of the sixteenth and seventeenth century, consult this reference.

Stein, Edwin I., Algebra in Easy Steps
 New York: Newson 1942 \$1.60
 R.G.L.: IX - X
 Source: Publisher
 This book individualizes algebra. It gives individual assignments and model solutions.

Stein, Evaleen, Gabriel and the Hour Book
 Boston: Page 1906 \$1.65
 R.G.L.: V - VII
 Source: 23
 Pp. 65-73 taxes in the Middle Ages

Stern, Philip Van Doren (Peter Storme Pseud.) and Newman, James R., (Paul Stryfe, Pseud.) How To Torture Your Friends
 New York: Simon 1941 \$1.35
 R.G.L.: H.S.
 Source: 44, 71
 This collection of brain twisters contains puzzles, tricks, mental problems, and mathematical recreations to be used at parties.

Stevenson, Augusta, George Washington, Boy Leader
 New York: Bobbs 1942 \$1.50
 R.G.L.: IV - V
 Source: 24
 Pp. 115-130, 163-174 surveying

Stone, Amy Wentworth, P-Penny and His Little Red Hen

New York: Lothrop 1934 \$2.00

R.G.L.: S

Source: 4,29

This realistic small town story is about a seven year old boy who earns money for his mother's birthday gift.

Stone, Charles Robert, Joyful Stories

St. Louis: Webster 1938 \$.72

R.G.L.: P

Source: 25

Pp. 68-71 carpentry, 178-185 playing store

----., and others, Joyful Reading

St. Louis: Webster 1932 \$.64

R.G.L.: II

Source: 27

Pp. 120-122 calendars

Stone, Gertrude L. and Fickett, Mary Grace, Everyday Life in the Colonies

Boston: Heath 1905 \$.72

R.G.L.: V - VI

Source: 23

Pp. 69-78 sundials

Stone, John Charles, The Teaching of Arithmetic

New York: Sanborn 1918 \$1.75

R.G.L.: T

Source: 15

This handbook for teachers covers the work for grades 1 - 8.

----., How to Teach Primary Number

New York: Sanborn 1922 \$1.32

R.G.L.: T

Source: 15

A detailed presentation of the work of the first four grades is presented here.

----., How We Subtract

New York: Sanborn 1926 \$.40

R.G.L.: T

Source: Library of Congress Catalog

A little chat is given here to teachers on methods of subtracting and also a suggestion for teaching one of the methods.

----., and Mallory, Virgil S., Mathematics for Everyday Use

New York: Sanborn 1935 \$1.64

R.G.L.: H.S.

Source: Publisher

In this book the author gives a course in general mathematics for high school students and adults who have found mathematics difficult.

Storm, Grace Emily, Friends About Us

Chicago: Lyons 1940 \$.88

R.G.L.: II

Source: 25,27

Pp. 37-40 banks and banking, 41-47 earning money, 53-56 grocery stores, 212-215 markets

----., Good Times Together

Chicago: Lyons 1940 \$.68

R.G.L.: I

Source: 25,27

Pp. 61-63 carpentry, 11-13, 117-120 toy stores

----., Neighbors and Helpers

Chicago: Lyons 1936 \$.83

R.G.L.: III

Source: 25,27

Pp. 206-208 fish markets, 191-193 vegetable markets

Stranger, Ralph, The Mathematics of Wireless

Easton, Pa.: Chemical Pub. Co. 1942 \$3.00

R.G.L.: H.S.

Source: School Science and Mathematics, 1943

The object of this book is to enable the reader to read technical books with greater ease and facility by building a background in simple and in technical language.

Studebaker, John Ward and others, Number Stories Book I

New York: Scott 1932 \$.72

R.G.L.: I

Source: 25,35,41,52,57,78,80

In this book the author has attempted to have the child gain a sense of number in an interesting way.

Pp. 102-109, 145-151 is devoted to the study of money.

----., Number Stories Book II

New York: Scott 1932 \$.80

R.G.L.: II

Source: 25,27,35,41,52,57,64

Pp. 118-119, 153,239 calendars, 21-24, 51-55, 98-101, 140-141, 170 money, 13-17, 51-52 shopping, 56-58, 152 time, 163-164, 186-189, 220-221 weights and measures

----., Number Stories Book III

New York: Scott 1934 \$.88

R.G.L.: III

Source: 25, 26, 27, 35, 41, 42, 52, 57

Pp. 62-63 calendars, 300-301 earning money, V.P. money, 102-104 and V.P. shopping, 116-117, 284-286 telling time, 182-183, 186-187, 216, 236, 260 weights and measures

Students of David Eugene Smith, History of Mathematics

Menasha: Mathematics Teacher 1926 Consult library files

R.G.L.: H.S. and C.

Source: 7 and Publisher

These pages contain a burlesque of the history of mathematics as written by certain former students of Professor David Eugene Smith.

Sullivan, John W. N., History of Mathematics in Europe

New York: Oxford 1925 \$1.00

R.G.L.: H.S.

Source: 7, 12

This valuable work contains exceedingly valuable material. It extends from the fall of Greek science to the rise and conception of mathematical rigour.

Sumner, Stephen Clayton, Supervised Study in Mathematics

New York: Macmillan 1922 \$1.40

R.G.L.: T

Source: 15

This work should be of particular interest to teachers who want further material on supervised study.

Suzzallo, H. and others, Fact and Story Readers Book I

New York: American Book 1938 \$.72

R.G.L.: I

Source: 27

Pp. 9-10 markets, 11-15, 19-23 playing store

----, Fact and Story Readers Book II

New York: American Book 1930 \$.76

R.G.L.: II

Source: 27

Pp. 187-190 markets

Swezey, Goodwin Deloss and Gable, J. Harris, Boys Book of Astronomy

New York: Dutton 1929 \$2.00

R.G.L.: VI - VII

Source: 4

Information is given here about heavenly bodies, eclipses, comets, and meteors, accompanied by many diagrams.

Sykes, Mabel, A Source Book of Problems in Geometry

New York: Allyn 1912 \$2.50

R.G.L.: H.S.

Source: 22

This book was constructed for design work. It is an interesting work containing numerous possible applications of geometry.

Tappan, Eva March, Makers of Many Things

Boston: Houghton 1926 \$2.00

R.G.L.: VI - VII

Source: 4

To find out how watches, shoes, gloves, etc. are made, this book is a good source of information. It also tells how a chemist makes coal and wood.

Tee, Van, Mrs. Helen Damrosch, Red Howling Monkey

New York: Macmillan 1926 \$1.60

R.G.L.: v - VII

Source: 23

Pp. 107-109 markets of South America

Terry, George Skelton, The Dozen System

New York: Longmans 1941 \$.50

R.G.L.: H.S.

Source: 37

This easy method in arithmetic is reproduced from a type-written copy. It is paged by the dozen system. It includes counting by dozens.

Terry, Paul Washington, How Numerals are Read

Chicago: Department of Education 1922 \$1.00

R.G.L.: T and C.

Source: Library of Congress catalogue

This experimental study treats the reading of isolated numbers and numerals in arithmetic and problems.

Tharp, Mrs. Louise Hall, Down to the Sea; A Young People's Life of Nathaniel Bowditch

New York: McBride 1942 \$2.50

R.G.L.: VI - IX

Source: 47

This life story of the great American navigator is written in simple language and interesting style.

Thomas, Mrs. Margaret Loring, Burro's Money Bag

New York: Abington 1931 \$1.00

R.G.L.: IV - VI

Source: 9,23

This is a story of a boy who sells gardenias to travelers in order to earn enough money to buy a burro.

Pp. 15-24 markets of Mexico

Thorndike, Edward Lee, New Methods in Arithmetic

Chicago: Rand 1921 \$1.50

R.G.L.: T

Source: 15

This book contains an elementary discussion of the learning process as applied to the teaching of arithmetic.

----., The Psychology of Arithmetic

New York: Macmillan 1922 \$2.00

R.G.L.: T

Source: 15

Here we find an application of psychology and experimental education applied to the teaching of arithmetic.

Thorsmark, Thora, In Wooden Shoe Land

New York: Row 1929 \$.80

R.G.L.: III - V

Source: 23

Pp. 93-105 markets in the Netherlands

Tibbels, Averil, Circus Comes to School

New York: Barnes 1937 \$2.50

R.G.L.: T

Source: 23

Pp. 113-133 business

Tietjens, Mrs. Eunice Strong Hammond, China

New York: Coward 1928 \$2.50

R.G.L.: V - VII and P

Source: 23

Pp. 365-373 shopping

----., Japan, Korea and Formosa

Chicago: Wheeler 1932 \$1.28

R.G.L.: V - VIII, P

Source: 23

Pp. 157-164 shopping Japan

Tippett, James Sterling, Busy Carpenters

New York: World Book 1929 \$.68

R.G.L.: I - II

Source: 25

Pp. 38-39, 75, 81-83 stores and playing store

----., Henry and His Friends

New York: World Book 1939 \$.72

R.G.L.: I

Source: 25

Pp. 26-28, 43-48, 97-108 stores

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-----., Here and There With Henry

New York: World Book 1943 \$1.00

R.G.L.: II - III

Source: 26

Pp. 22-27 earning money

-----., Stories About Henry

New York: World Book 1939 \$.64

R.G.L.: P and I

Source: 25

Pp. 57-63 carpentry

-----., and Tippet, M. K., Sniff

Boston: Heath 1937 \$.80

R.G.L.: I

Source: 25, 27

Pp. 78-84 shopping

Todhunter, Isaac, A History of the Mathematical Theories of Attraction and the Figure of the Earth

New York: Macmillan 1873 \$12.00

R.G.L.: C.

A chronological list of authors is given in this book. It includes the dates of the birth and death of the principal writers on attraction from Newton to Laplace.

-----., The Elements of Euclid

New York: Macmillan 1879 \$.75

R.G.L.: C.

Source: 80

This volume comprises the first six books and portions of the eleventh and twelfth books. Notes, an appendix, and exercises are also included.

Towse, Anna Bernedetta, Health Stories Book I

New York: Scott 1933 \$.64

R.G.L.: I - II

Source: 25

Pp. 64-69, 68-73 playing store

-----., Health Stories, Book II

New York: Scott 1934 \$.80

R.G.L.: II - III

Source: 25

Pp. 116 thermometers

-----., Health Stories, Book III

New York: Scott 1935 \$.88

R.G.L.: III

Source: 25

Pp. 93-94 shoe stores

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page. The text appears to be organized into several paragraphs or sections, with some lines starting with capital letters or numbers.]

Towsley, Lena G., All Around the Clock

New York: Farrar 1934 \$1.00

R.G.L.: I - II

Source: 25, 29

Diagrams show various positions of the clock hands with photographs of children's activities. The text is simple.

Tracy, John Clayton, Plane Surveying

New York: Wiley 1903 \$3.50

R.G.L.: VII - XII

Source: 15

This book contains many problems useful for illustration in secondary mathematics.

Trinka, Zena Irma, Jenik and Marenka

New York: Crowell 1937 \$1.50

R.G.L.: V - VI

Source: 23

Pp. 36-63, 114-116 markets in Czechoslovakia

Troxell, Eleanor and others, On Shining Rails

New York: Scribner 1939 \$.88

R.G.L.: III

Source: 25

Pp. 50-51, 80-82 signals and signaling

Turnbull, Herbert Westren, Great Mathematicians

London: Methuen 1929 2S 6d

R.G.L.: C.

Source: 89

Nineteen diagrams accompany the history of the great European mathematicians. Suggestions are given for further reading.

Turner, Clair Elsmere, Cleanliness and Health

Boston: Heath 1937 \$.80

R.G.L.: V - VII

Source: 23

Pp. 180 graphs

----., Health

Boston: Heath 1937 \$.72

R.G.L.: IV - VI

Source: 23

Pp. 41 graphs

----., Joy Family

Boston: Heath 1936 \$.56

R.G.L.: II - III

Source: 27

Pp. 43-45 stores

-----., and Hallock, Grace T., Growing Up

Boston: Heath 1941 \$.72

R.G.L.: III

Source: 25

Pp. 115-118 clothing stores, 12-16 grocery stores

Tuttle, Florence Piper, In the Workshop

New York: Longmans 1937 \$.80

R.G.L.: III

Source: 27

Pp. 134-141 playing cafeteria

Upton, Clifford Brewster, Adventures in Arithmetic

New York: American Book 1940 \$.32

R.G.L.: I - VIII

Source: 80

These workbooks include arithmetic for grades one through eight. They may be purchased with and without answers.

-----., First Days With Numbers

New York: American Book 1933 \$.40

R.G.L.: I - III

Source: Mathematics Teacher, 1934

Children's games and play is used as a basis for gaining number knowledge.

United States Department of Commerce, Stories of American Industry

Washington, D. C.: Government Printing Office 1937 \$.10

R.G.L.: T

Source: 23

Pp. 49-52 engineering

Van Leuven, Edwin Perry, General Trade Mathematics

New York: McGraw 1942 \$3.50

R.G.L.: H.S.

Source: School Science and Mathematics, 1943

This book covers the fundamental principals of mathematics and also covers the social problems of the working man including piecework, social security and compensation.

Verne, Jules, Twenty Thousand Leagues Under the Sea

Chicago: Rand 1922 \$1.00

R.G.L.: VII - VIII

Source: Cheyney Training School for Teachers, Pennsylvania

Much scientific informations is included in this story about Captain Nemo and his ingenious submarine boat.

Verrill, Alpheus H., Boys' Outdoor Vacation Book

New York: Dodd 1915 \$2.00

R.G.L.: V - VIII

Source: 4

Besides chapters on camping, sailing, swimming, and woodcraft, this book tells how to make moccasins and primitive weapons.

----., Ocean and Its Mysteries

New York: Dodd 1916 \$1.50

R.G.L.: VII - VIII

Source: 4

In very readable style this book tells about life in the depths and near the surface. It also tells about currents and divers.

Vinal, William Gould, Nature Recreations

New York: McGraw 1940 \$3.00

R.G.L.: VI - X

Source: School Science and Mathematics, 1941

Here we may find rules for athletics, camping, and cooking, and recipes.

Vincent, H. D., Vocational Arithmetic

Boston: Houghton 1914 \$.96

R.G.L.: H.S.

Source: Parlin Library, Everett

The intention of the author is to make this book strictly practical in every sense. The lessons are all live subjects and such as are met in everyday life. Very little fraction work is involved but enough for daily needs. There is some work in percentage but only the simplest forms.

Waddell, John Franklin, Helpers

New York: Macmillan 1937 \$1.40

R.G.L.: II - III

Source: 25, 27

Pp. 181-182 clothing store, 72-73 grocery store, 188-191 salesman, P. 46 shopping

----., Long Ago

New York: Macmillan 1933 \$1.16

R.G.L.: III

Source: 25

Pp. 61-63 signals and signaling, 154-155 telling time

----., Our Home

New York: Macmillan 1939 \$1.16

R.G.L.: I - II

Source: 25

This is a story about architecture.

Pp. 56-57, 74-75 earning money

Wahlert, Jennie, Meeting Our Neighbors

Boston: Houghton 1936 \$.96

R.G.L.: III

Source: 25

Pp. 135-145 markets

----., and Hahn, Julia Letheld, Neighbors Near and Far

Boston: Houghton 1935 \$.80

R.G.L.: III

Source: 27

Pp. 135-145 markets

Wang, Theodore, Joseph, Mathematics for Radio Communication

New York: Van Nostrand 1908

R.G.L.: H.S. and C.

Source: 2

This book was written to facilitate the study of radio, electronics, and allied subjects, which are broadly classified under the heading of communications. It is designed for those students who are unable to devote the required time to the preliminary study of mathematics. The mathematics is presented simultaneously with the communication studies.

Waterman, E., A.B.C. of Rhythmic Training

Chicago: Summy 1927 \$2.50

R.G.L.: M

Source: 26

Pp. 66 clocks

Waugh, Albert E., Elements of Statistical Methods

New York: McGraw 1938 \$3.50

R.G.L.: H.S. and C.

Source: Mathematics Teacher, 1938

The author intended in this book to give a simple readable exposition of the basic principles and methods of statistics which are common to scientific research in all fields without specializing in any branch to the exclusion of others. Emphasis is placed on the understanding of the concept rather than upon the mathematical manipulation. It is intended for the beginner who must start "from scratch."

Way, R. Barnard and Green, Noel D., Time and Its Reckoning

Easton, Pa.: Chemical 1940 \$2.00

R.G.L.: H.S.

Source: School Science and Mathematics, 1941

The historical development of time units and the calendar can be found here. Information is given about shadow clocks, sundials, water clocks and present time timekeepers.

[The text in this block is extremely faint and illegible, appearing as a series of horizontal lines and scattered dots across the page.]

Webster, Hanson Hart, Travel by Air, Land, and Sea
 Boston: Houghton 1933 \$1.12
 R.G.L.: V - VII
 Source: 23
 Pp. 169-176 signaling

----., World's Messengers
 Boston: Houghton 1935 \$2.00
 R.G.L.: V - VII
 Source: 4, 23
 Pp. 67-71 Morse Code, 52-90 signals, 171-173 standard time

Weed, Arthur J., Dynamo Building for Amateurs
 New York: Henley 1946 \$1.00
 R.G.L.: H.S.
 Source: Publisher
 This practical treatise shows in detail the construction of a small dynamo or motor. Dimensioned working drawings are given for each piece of machine work.

Weeks, Raymond, A Boy's Own Arithmetic
 New York: Dutton 1924 \$2.00
 R.G.L.: V - VII - IX
 Source: 7, 8, 10, 12, 22, 34, 38, 86
 A series of short stories is presented in this book accompanied by problems in arithmetic to be solved. Story problems of algebra and arithmetic are cleverly told. An entertaining satire appears here on the problem content of our arithmetic. Fun as well as thinking is involved.

Weil, Mrs. Ann, Silver Fawn
 New York: Bobbs 1939 \$2.00
 R.G.L.: V - VII
 Source: 23
 Pp. 98-105 markets in Mexico

Wells, Margaret Elizabeth, How the Present Came From the Past
 New York: Macmillan 1932 \$1.00
 R.G.L.: V - VII
 Source: 23
 Pp. 9-10, 61-62 calendars, 87-89, 128-129, 133 money

Wells, Rhea, Peppi the Duck
 New York: Doubleday 1927 \$2.00
 R.G.L.: III - IV
 Source: 23
 Pp. 72-90 markets of the Tyrol

Wentworth, George and Smith, David Eugene, Solid Geometry
 New York: Ginn 1912 \$1.50

R.G.L.: H.S.

Source: 16

In this book can be found the history of geometry. Also there are eight well known geometric puzzles.

----., Smith, David Eugene, Harper, E. D., Fundamentals of Practical Mathematics

New York: Ginn 1922 \$1.20

R.G.L.: H.S.

Source: 15

A valuable collection of applied problems involving arithmetic, intuitive geometry, and the elements of algebra can be found in this book.

----., Machine Shop Mathematics

New York: Ginn 1922 \$1.20

R.G.L.: H.S.

Source: 15

This book is adapted to the needs of students in machine shop work. It contains a large number of illustrations.

----., and Schlaugh, W. S., Commercial Algebra (Books 1 and 2)

New York: Ginn 1917 \$1.36

R.G.L.: H.S.

Source: 15

These books carry applications of algebra into new fields of commercial activity.

Wertheimer, Max, Productive Thinking

New York: Harper 1945 \$3.00

R.G.L.: H.S. and C.

Source: Mathematics Teacher, 1946

This book gives the traditional views of the nature of thinking. It contains various examples of thinking from the simple to the finest. It contains chapters on the following subjects: Area of a parallelogram, problems of vertical angles, and finding the sum of the angles of a polygon.

Weymouth, C. A., Jr., What Plane Is That?

New York: Stokes 1936 \$1.25

R.G.L.: VI - XII

Source: 5

Each plane picture in this book is accompanied by the following information; capacity, weight, length, wing span, power, speed, climb, range and service ceiling. This volume covers all the latest plane and plane design.

Wheat, Harry Grove, The Psychology and Teaching of Arithmetic

Boston: Heath 1937 \$2.80

R.G.L.: T

Source: 30

This book was written to describe the peculiarities and characteristics of arithmetic, and to distinguish between its actualities and appearances, with the conviction that once a teacher understands the essential features of the subject he will have some intelligence about holding them up to the attention of his pupils. The discussions of the book are intended to describe the number system and to suggest means of making the children intelligent about it.

Whitaker, Helen, The Mathematical Quest

Menasha: School Science and Mathematics 1920 Consult library files

R.G.L.: H.S.

Source: Publisher

This May Day play in verse requires fifty characters and two speaking parts. It implies a knowledge of equations.

White, Horace, Money and Banking

New York: Ginn 1935 \$2.90

R.G.L.: H.S. and C.

Source: 7

The contents of this book are as follows: Gold as a metal, gold production, gold standard, colonial bills or credit, revolutionary bills or credit, greenbacks, confederate currency, functions of a bank, a bank statement, early American banks, the National Bank system, and foreign banking systems.

White, Margaret L. and Hanthorn, Alice, Boys and Girls at School

New York: American Book 1930 \$.44

R.G.L.: PP

Source: 25, 27

Pp. 13-16, 49-52 playing store

----., Boys and Girls at Work and Play

New York: American Book 1930 \$.64

R.G.L.: P

Source: 27

Pp. 122-123 stores

----., Interesting Things to Know

New York: American Book 1930 \$.96

R.G.L.: III

Source: 25

Pp. 196-199 markets, 175-184 months

----., Our Friends at Home and School

New York: American Book 1930 \$.80

R.G.L.: I

Source: 25, 27

Pp. 48-49 florist shop, 13-15 pet stores

White, William Chapman, Made in Russia

New York: Knopf 1932 \$2.00

R.G.L.: T

Source: 23

Pp. 57-59, 89-90, 119-120 markets in Russia

White, William F., A Scrapbook of Elementary Mathematics

LaSalle: Open Court 1910 \$1.50

R.G.L.: H.S.

Source: 6,16

The author makes an interesting discovery that only four different colors are necessary in order to color the most complicated map of a country so that contiguous sides of districts shall not have the same color. Other topics in this book are as follows: "What does a billion mean?" "Numbers arising from measurement," "Algebraic fallacies," and "Geometric Puzzles."

Whitehead, R., Five and Ten

Boston: Houghton 1943 \$.85

R.G.L.: II - III

Source: 26

This book is valuable for its shopping stories.

Whitford, William Garrison, Art Stories, Book I

New York: Scott 1933 \$.80

R.G.L.: II

Source: 25

Pp. 88-90 toy stores

----., Art Stories, Book II

New York: Scott 1934 \$.92

R.G.L.: II - III

Source: 25

Pp. 82-85 architecture, 63-70 carpentry

----., Art Stories, Book III

New York: Scott 1935 \$1.00

R.G.L.: III

Source: 25

Pp. 71-93 architecture, 77 poetry

Whitwell, Philip, The Romance of the Calendar

New York: Norton 1937 \$3.00

R.G.L.: H.S.

Source: 7

The author, in this book, describes ancient calendars, the evolution of the Gregorian calendar, and gives various current suggestions for further reform of the present calendar.

Wilder, Mrs. Laura Ingalls, On the Banks of Plum Creek

New York: Harper 1935 \$2.00

R.G.L.: V - VI

Source: 23

Pp. 171-173 pioneer shopping

Wilks, S. S., Mathematical Statistics

Princeton: Princeton University Press 1946 \$3.75

R.G.L.: C.

Source: Publisher

The author has performed a valuable service to all interested in the field by writing this excellent introduction to the most recent developments in statistics.

Williams, Henry Lionel, Keep 'Em Flying

New York: Row 1942 \$.96

R.G.L.: H.S.

Source: Publisher

This book is one of "The Way of Life" series. It shows how a young man can have a profitable career as a mechanic.

Williams, Susan Mary, Toby

New York: American Book 1942 \$.44

R.G.L.: I

Source: 25

Pp. 14-18 grocery stores

Wilson, Charles Christopher and others, Our Good Health

New York: Bobbs 1942 \$.68

R.G.L.: I

Source: 26

Pp. 86-87 markets, 48-50 telling time, 108-109 thermometers

Wilson, Clare O., Tale of a Trailer

Chicago: Follett 1937 \$.60

R.G.L.: V - VI, P

Source: 23

Pp. 22-27 business

Wilson, Guy Mitchell, Stone, M. E., Dalrymple, C. O., Teaching the New Arithmetic

New York: McGraw 1939 \$3.00

R.G.L.: IV - VII

Source: 80

Here we find the learning of arithmetic accomplished by games, use of beanbags, tenpins, quoits, darts, shuffleboard, marbles, cards, and tiddleywinks.

Wilson, Howard Eugene, Living in the Age of Machines

New York: American Book 1937 \$1.48

R.G.L.: VI - VIII

Source: 23,35

Pp. 550-555 cost of living, 539-555 money, P.32 numbers

----., Richer Ways of Living

New York: American Book 1938 \$1.52

R.G.L.: V - VIII

Source: 23

Pp. 651 our ways of living, 460 potato and cotton graphs, 449 salt graph, 415-423 weights and measures

----., and others, Ways of Living in Many Lands

New York: American Book 1937 \$1.16

R.G.L.: III - V

Source: 23

Pp. 79-85 markets in Arabia

----., Where Our Ways of Living Come From

New York: American Book 1937 \$1.28

R.G.L.: IV - VI

Source: 23

Pp. 354-361 clocks and watches, 414-419 money, 370-372 time

Winslow; Leon Loyel, Elementary Industrial Arts

New York: Macmillan 1922 \$1.32

R.G.L.: P,T

Source: 23

Pp. 312-325 carpentry

Wolf, Janet and Holmes, Margaret Cook, The Grocery Man

New York: Noble 1936 \$.75

R.G.L.: I - II

Source: Publisher

This book is an ideal supplementary reader for those who wish to have mathematical activities in primary grades.

Wood, Esther, Pedro's Coconut Skates

New York: Longmans 1939 \$1.50

R.G.L.: IV - VI

Source: 23

Pp. 37-51 markets in the Philippine Islands

Wood, Thomas Denison, Keeping Fit

New York: Nelson 1936 \$.72

R.G.L.: V - VII

Source: 23

Pp. 38-39 graphs

-----., Many Ways of Living

New York: Nelson 1936 \$.68

R.G.L.: IV - VI

Source: 23

Pp. 17-23 markets, 139-143 signals

-----., Now We Are Growing

New York: Nelson 1936 \$.68

R.G.L.: III

Source: 25

Pp. 7-18 weights and measures

-----., and others, Blazing the Trail

New York: Nelson 1936 \$.80

R.G.L.: VI - VII

Source:

Pp. 92,97,115,135,180 graphs

Woodburn, James Albert and Moran, Thomas Francis, Active Citizenship

New York: Longmans 1935 \$1.32

R.G.L.: VII - VIII

Source: 4

This book is valuable for information concerning constitutional amendments and the New Deal.

Pp. 123-135 money

Woodring, Maxie N. and Sanford, Vera, Enriched Teaching of Mathematics in the Junior and Senior High Schools

New York: Columbia Teachers College 1938 \$1.75

R.G.L.: T

Source: 2,8

Excellent sources are mentioned here for mathematical books, fun, movies, plays, and puzzles.

Worthington, Josephine and Frank, Mrs. Catherine M., Our Clothing

New York: Owen 1936 \$.96

R.G.L.: V - VII

Source: 23

Pp. 82-89 factory systems

Wright, Wendell William, and others, New Paths

New York: Johnson 1934 \$.88

R.G.L.: IV - VI

Source: 23

Pp. 24-25 signals and signaling

-----., Pioneers

New York: Johnson 1934 \$.84

R.G.L.: IV - VI

Source: 23

Pp. 181-198 grocers, 96-111 mail service

-----., Trails Beyond

New York: Johnson 1934 \$.92

R.G.L.: V - VII

Source: 23

Pp. 183-201 department stores, 202-221 manufactures

Wyatt, E. M., Puzzles in Wood

St. Paul: Bruce 1928 \$.60

R.G.L.: H.S.

Source: 6

Dissection figures, shuffle puzzles, Tow of Hanoi Puzzle, crossword and wedge puzzles can be found here.

Wyler, Rose, Experiment Book

Boston: Hale 1939 \$.10

R.G.L.: IV - V, P

Source: 23

Pp. 10-21, 22-25 thermometers

Wylie, Charles Clayton, Our Starland

Chicago: Lyons 1938 \$.88

R.G.L.: IV - VI

Source: 23

Pp. 210-216 calendars, 206-209 standard time, 197-216 time

Yates, Raymond Francis, Atom Smashers

New York: Didier 1945 \$2.00

R.G.L.: H.S.

Source: School Science and Mathematics, 1946

This little book is written on a lively subject told in about the simplest language possible. It takes the readers up to the things he would like to know but gives no forbidden information. It starts at the time of the ancient Greeks and goes as far as the time of Nier, Fermi, and Dunning.

-----., Boys Book of Model Boats

New York: Appleton 1920 \$2.00

R.G.L.: H.S.

Source: 5

Various models of sample boats can be found here.

-----., Fun With Electrons

New York: Appleton 1945 \$2.75

R.G.L.: H.S.

Source: 73

The author wrote this book for amusement for those who have

some knowledge of electronics. Seventy-eight diagrams and thirty photographs accompany the instructions.

----., Lathe Work For Beginners

New York: Henley 1922 \$2.00

R.G.L.: H.S.

Source: 2

This practical treatise on lathe work gives complete instructions for properly using the various tools including complete directions for wood and metal turning, screw cutting, and measuring tools.

----., Model Gasoline Engines: Their Operation and Use

New York: Appleton 1941 \$2.50

R.G.L.: VIII - XII

Source: 4,5,28

Facts and figures are given about model boats. Also we find here material about the care, operation, repair and upkeep of miniature gasoline engines.

----., Model Making

New York: Henley 1919 \$3.00

R.G.L.: VIII - XII

Source: Publisher

Workshop practice, design, and construction of models is given here.

----., Weather For A Hobby

New York: Dodd 1946 \$2.75

R.G.L.: H.S.

Source:

This guide for the construction and use of weather instruments is intended for amateurs. Drawings and photos are included.

Yates, Robert C., Tools, A Mathematical Sketch and Model Book

Baton Rouge: Louisiana State University Press 1941 \$1.60

R.G.L.: H.S.

Source: School Science and Mathematics, 1942

This book could be used as a text. It should be found in every high school library. It deals with geometry which grows out of the use of various mathematical tools.

Yeaton, Clyde, Pablo of Mexico

Chicago: Lyons 1941 \$.24

R.G.L.: III

Source: 25

Pp. 3-12 markets

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yeldham, Florence A., The Story of Reckoning in the Middle Ages
 London: Harrap 1926 38, 6d
 R.G.L.: VII - XII
 Source: 7

A delightful account is given here of reckoning with counters and also an account of the early methods of computing with Hindu Arabic numbers.

----., The Teaching of Arithmetic Through Four Hundred Years
 London: Harrap 1936 58
 R.G.L.: T
 Source: 7

This book includes many quotations from important arithmetics published in England since 1535.

Yntema, Theodore Otte, A Mathematical Reformulation of the General Theory of International Trade
 Chicago: University of Chicago Press 1932
 R.G.L.: C.
 Source: 2

The contents of this dissertation are as follows: The general equations, describing equilibrium, relaxing the limitations on the equilibrium equations, graphic methods, and the effects of disturbances to equilibrium.

roakam, Gerald Alan, Exploring New Fields
 New York: Macmillan 1938 \$1.00
 R.G.L.: VI - VIII
 Source: 23
 Pp. 350-365 insurance

----., Gaining New Knowledge
 New York: Macmillan 1938 \$.96
 R.G.L.: V - VII
 Source: 23
 Pp. 180-188 insurance, 302-308 standard time, 295-322 time

----., and others, Reading to Learn: Introductory Book
 New York: Macmillan 1938 \$.88
 R.G.L.: V - VI
 Source: 23
 Pp. 264-278 signals and signaling

Young, Jacob William Albert, Monographs on Topics of Modern Mathematics Relevant to the Elementary Field
 New York: Longmans 1911 \$3.00
 R.G.L.: C.
 Source: 30

The following monographs can be found here: The founda-

tions of geometry, modern pure geometry, Non-Euclidean geometry, the fundamental propositions of algebra, the algebraic equations, the function concept and the fundamental notions of the calculus, the theory of numbers, constructions with rulers and compasses, regular polygons, and the history and transcendence of π (pi).

Yowell, Stella, Robert's School

Chicago: Wheeler 1934 \$.60

R.G.L.: II

Source: 25

Pp. 14-16 carpentry

Zarchy, Harry, Let's Make More Things

New York: Knopf 1943

R.G.L.: VI - IX

Source: 5

Directions are given in this book for making boxes, doll furniture, lamps, jewelry, paper flowers, marionettes, and block printing. Pictures of tools are shown and directions for their use is given.

Zirbes, Laura and others, Workers

Philadelphia: Keystone 1929 \$.57

R.G.L.: III

Source: 27

Pp. 38-39 stores



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OF READING MATERIALS
FOR
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Master Paper

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to

A MASTER LIST OF READING MATERIALS FOR
ENRICHING COURSES IN MATHEMATICS

Submitted by

Anna May Powers

(B.A., Boston College 1943)

In partial fulfillment of requirements
for the degree of Master of Arts

1947

BOSTON UNIVERSITY

GRADUATE SCHOOL

Term Paper

Supplement
to

A MASTER LIST OF READING MATERIALS FOR
ENRICHING COURSES IN MATHEMATICS

Submitted by

Anna May Powers

(B.A., Boston College 1943)

In partial fulfillment of requirements
for the degree of Master of Arts

1947

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Roy O. Billett
R. O. Billett

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CHAPTER III

In the Boston University Library, there can be found a master paper called: A Master List of Reading Materials for Enriching Courses in Mathematics.

The bibliography is arranged alphabetically by author. It includes the complete name of the author, complete title of the book or play, publisher, date, price, source for selection, and a short annotation.

To facilitate book selection for the teacher, librarian, and student, this master list has been arranged by grades: primary grades--one, two, and three; intermediate--four, five, and six; high school and college--seven through sixteen.

In Chapter IV the same list of eleven hundred and three books has been written alphabetically by title due to the fact that the title may be more familiar to the reader and more readily catch his attention than the author's name.

It is the sincere hope of the author that the list may be of real value.

THE STATE

It is the duty of the State to protect the rights of its citizens and to maintain the peace and order of the community. The State is the highest authority in the land and its power is derived from the people.

The State is the guardian of the public interest and it is its duty to see that the rights of the individual are not infringed upon. The State is the source of the law and it is its duty to enforce the law and to punish those who break it.

The State is the protector of the weak and the defenseless and it is its duty to see that the rights of the individual are not infringed upon. The State is the source of the law and it is its duty to enforce the law and to punish those who break it.

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LIST OF SYMBOLS

C.-----College level
H.-----handcraft
H.S.-----high school
M.-----music
P.-----picture material important
PP.-----preprimer
P.S.-----picture stories
Roman Numerals-----grade difficulty
S.C.-----story collections
T.-----teacher's reference

THEORY

The first part of the theory is the definition of the system.

The second part of the theory is the definition of the system.

The third part of the theory is the definition of the system.

The fourth part of the theory is the definition of the system.

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The ninth part of the theory is the definition of the system.

The tenth part of the theory is the definition of the system.

The eleventh part of the theory is the definition of the system.

CHAPTER III

MASTER LIST ARRANGED BY GRADE

The purpose of this grade list is to facilitate book selection for the teacher, librarian, and student.

PRIMARY GRADES

I - II - III

		Grade
Andress, J. M.,	Growing Big and Strong. . . .	III
-----.,	Health Parade. . . .	.II-III
Atwood, W. W.,	Neighborhood Stories	. III-V
Baker, E. D.,	Sailing Tub. . . .	.II-III
Barto, A.,	Count to Ten with Little Red Hen. .	I
Bass, F.,	Stories of Pioneer Life	. III
Beaty, J. Y.,	Story Pictures of Farm Work. . . .	. I-II
-----.,	Story Pictures of Our Neighbors .	.II-III
-----.,	Story Pictures of Transportation and Communication	. III-V
Beauchamp, W. L.,	All Around Us	. P, I
-----.,	Look and Learn	. P, I
-----.,	Science Stories, Book I	. I-II
-----.,	Science Stories, Book II	.II-III
Becker, C.,	Stories for Fun	. S.C.
Beebe, C.,	The Calendar. . . .	. S.C.
Bianco, M.,	The Street of Little Shops	. I-III
-----.,	Five-and-a-half-Club, Book III .	. III

Bourgeois, F.,	Peter, Peter, Pumpkin Grower.	. II,III,S.C.
Brock, E. L.,	To Market! To Market!.	. . P.S.,I,II
Brown, J. C.,	Fun With Numbers.	. . . III-IV
Buckingham,B.R.,	Come With Me.	. . . PP
-----.,	Let's Play	. . . PP
-----.,	Munching Peter	. . . II-III
-----.,	Play Days	. . . P
-----.,	Playing Together.	. . . I
Buckley, H. M.,	Here and There	. . . III
Buswell, G. T.,	Daily-Life Arithmetic, Grade III	. . III
-----.,	Jolly Number Tales, Book I	. . . I
-----.,	Jolly Number Tales, Book II	. . . II
Butler, B.,	Puppy Dog Number Book	. . . I
Carpenter, F.,	Our Little Friends of the Netherlands	. III
-----.,	Our Little Neighbors at Work and Play	. III
Chalmers, A.,	I Had A Penny	. . . P.S.
Charters, W. W.,	Through the Year.	. . . II
Clark, M. K.,	Number Play.	. . . P, I
-----.,	In Number Land	. . . I
-----.,	Numbers at Work	. . . II
Coughlan, S.,	Wishing Well.	. . . P
Cousland, G.,	My Little Counting Book	. . PP, I-II
Crabtree, E. K.,	In the City and On the Farm	. . . I
-----.,	To School and Home Again	. . . P
-----.,	Under the Sun	. . . III
Craig, G. S.,	Changes All Around Us.	. . . II-III

Craig, G. S.,	Our Earth and Sky.		.III
-----.,	Science Through the Year		II-III
-----.,	We Find Out		I-II
-----.,	We Look About Us		I-II
-----.,	We Want to Know		I-II
Credle, E.,	Little Jeemes Henry		S.C.
Cutright, P.,	Living Together At Home and At School.		I-II
Dalgliesh, A.,	Choosing Book		P.S.
DeAngeli, M.,	Tod and Nina Go to the Grocery Store .		S.C.
Dearborn, B. J.,	City Friends.		II-III
-----.,	How the Indians Lived		III
DeHuff, E. W.,	Two Little Hopi		III
Deming, A. G.,	Number Stories		I-III
Deming, T. O.,	Indians of the Wigwams.		III-V
-----.,	Red People of the Wooded Country.		III
Dixon, Jack.,	Count the Puppies.		. I
Dopp, K. E.,	Busy Days with Little Friends		. I
Durfee, B.,	Mateo and Lolita		III-V
Earle, A. M.,	Home Life in Colonial Days		P.S.
Edwards, E. D.,	Haruko, Child of Japan.		III-V
Edwards, P. G.,	Outdoor World.		III
Eleska, E.,	I Count		P, II
Eliot, F.,	Pablo's Pipe		II,III
English, M.,	Good Friends		. I
-----.,	Jo-Boy		. P

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132-133	.	.	.	.	the new school	
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-----.,	Wheels and Wings.	.	.	.	.	II-III
Ernest, E.,	A Child's First Book	.	.	.	.	II-III
Flack, M.,	Neighbors On the Hill.	.	.	.	.	II-III
Floherty, J. J.,	On the Air; the Story of Radio.	.	.	.	.	P
Flory, J.,	How Many?	.	.	.	.	P, I
Fowlkes, J. G.,	Healthy Bodies	.	.	.	.	III
Fraser, P.,	The Little Piggy and Other Counting Rhymes	.	.	.	.	II
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-----.,	Through the Year	.	.	.	.	I-II
-----.,	Winter Comes and Goes	.	.	.	.	II-III
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Friskey, M.,	Chicken Little Count to Ten	.	.	.	.	I-II
-----.,	Surprise On Wheels	.	.	.	.	P. S.
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-----.,	Fun With Nick and Dick	.	.	.	.	I
-----.,	Good Times On Our Street	.	.	.	.	I-II
-----.,	Nick and Dick	.	.	.	.	II-III
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-----.,	Peter and Peggy.	.	.	.	.	P
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Gecks, M. C.,	Friends to Make.	.	.	.	.	I
Gehres, E.H.M.,	Every Day Life, - Primer	.	.	.	.	P
-----.,	Every Day Life, Book I	.	.	.	.	I
-----.,	Every Day Life, Book II	.	.	.	.	II
-----.,	Tots and Toys	.	.	.	.	PP

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-----.,	Good Friends.		P
-----.,	Good Times		I
-----.,	Pets and Playtimes		P
-----.,	Stories for Everyday		II
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-----.,	Fun With Dick and Jane.		P
-----.,	More Friends and Neighbors		II-III
-----.,	More Streets and Roads		III
-----.,	Our New Friends		I
Hahn, J. L.,	Everyday Friends.		P,I
-----.,	Finding Friends		I
-----.,	Reading for Fun		P
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-----.,	David's Friends at School		I
-----.,	Peter's Family		P
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-----.,	Sally and Billy in Winter		P.P.
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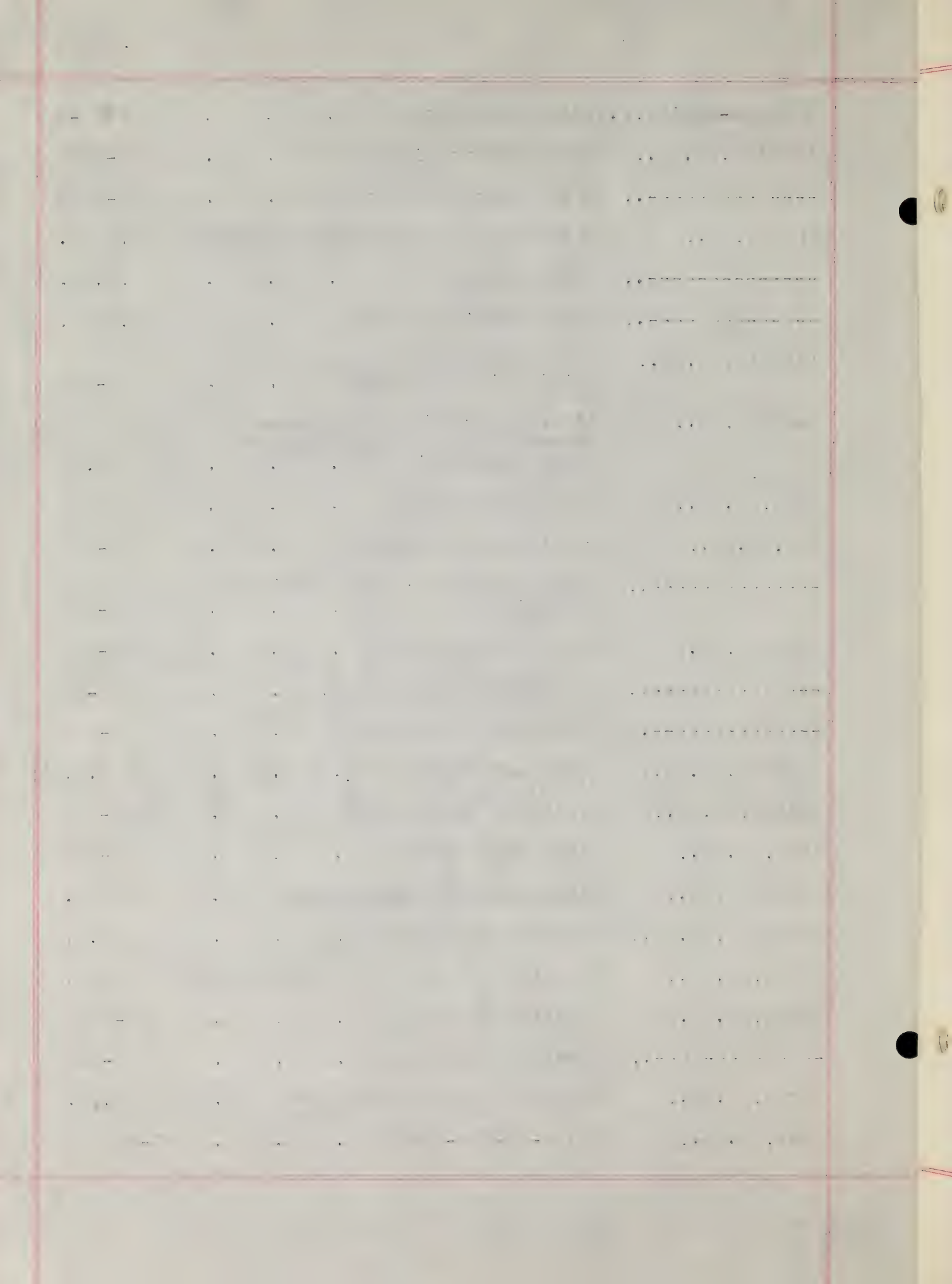
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Zarchy, H.,	Let's Make More Things . . .	VI-IX
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HANDICRAFT

Faurot, W. L.,	Art of Whittling . . .	H
Hall, A. N.,	Craft Work-and-Play Things .	H
Horowitz, C.,	Child's Treasury of Things-to-do	H
Leeming, J.,	Fun With Paper . . .	H
-----.,	Models Any Boy Can Build . .	H
-----.,	More Things Any Boy Can Make .	H
-----.,	Things Any Boy Can Make . .	H
McCann, E. A.,	Ship Model Making . . .	H
-----.,	How to Make a Model of a Clipper Ship	H
-----.,	How to Make Worthwhile Models .	H
Newkirk, L. W.,	Integrated Handwork for Elementary Schools . . .	H
Perry, E. K.,	Art Adventures With Discarded Materials . . .	H
Plimpton, E.,	Your Workshop . . .	H
Quinlan, M. B.,	Faces and Places . . .	H

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MUSIC

Boesel, A. S.,	Sing and Sing Again . . .	M
-----.,	Singing With Peter and Patsy .	M
Coit, L. E.,	It's Fun to Listen . . .	M
Coleman, S,N.B.,	Singing Time . . .	M
Waterman, E.,	ABC of Rhythmic Training . .	M

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TEACHER

Bacmeister, R.,	Stories to Begin On . . .	T
Bancroft, J. H.,	Games . . .	T
Blackhurst, J. H.,	Principles and Methods of Junior High Mathematics . . .	T
Boesel, A. S.,	Sing and Sing Again . . .	T
Brown, E.,	Little Story Book . . .	T
Coleman, S.N.B.,	Drum Book . . .	T
Comstock, A. B.,	Handbook of Nature Study . .	T
Crew, H. C. C.,	Saturday's Children . . .	T
Earle, A. M.,	Home Life in Colonial Days .	T
Fallis, Edwina	Child and Things . . .	T
Garrison, C. G.,	Science Experiences for Little Children . . .	T
Gruenberg, S. M.,	Favorite Stories Old and New .	T
Hills, V.,	Martin and Judy in Sunshine and Rain	T
-----.,	Martin and Judy in Their Two Little Houses . . .	T
-----.,	Martin and Judy Playing and Learning	T
Johnson, G. E.,	Education for Plays and Games .	T
Laisant, C. A.,	Initiation Mathematique . .	T
MacDonald, L. A.,	Mathematics and English . .	T
Mach, E.,	Science of Mechanics . . .	T
McLaughlin, K. L.,	A Study of Number Ability in Children of Ages 3-6 . .	T
-----.,	Number Projects for Beginners .	T
Meeks, A. R.,	Recreational Aspects of Mathematics in the Junior High School .	T

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Mitchell, L. S.,	Another Here and Now Story Book	T
-----.,	Here and Now Story Book . . .	T
Newhall, C. W.,	Recreations in Secondary Mathematics	T
Nunn, T. P.,	The Teaching of Algebra Includ- ing Trigonometry . . .	T
Overman, J. R.,	A Course in Arithmetic for Teachers and Teacher Training Classes	T
Parker, A. C.,	Indian How Book . . .	P,T
Parker, B. M.,	Introductory Course in Science	T
Parker, S. C.,	Methods of Teaching in High School	T
Perry, J.,	Spinning Tops . . .	T
Reed, Z.,	High School Mathematics Clubs .	T
Rugg, H. O.,	Statistical Methods Applied to Education . . .	T
Salomon, J. H.,	Book of Indian Crafts and Indian Lore . . .	P,T
Schorling, R.,	A Mathematical Contest . .	T
Schultze, A.,	The Teaching of Mathematics in the Secondary Schools . .	T
Shibli, J.,	Recent Developments in the Teaching of Geometry . .	T
Shuttlesworth, J. C.,	The Use of Enrichment Materials in Secondary Mathematics . .	T
Smith, D. E.,	The Progress of Arithmetic in the Last Quarter of a Century .	T
-----.,	Number Games and Number Rhymes	T
-----.,	The Teaching of Junior High Mathe- matics, "Mathematical Recreations"	T
Smith, S. C. G.,	Made in Mexico . . .	T
Spicer, D. G.,	Book of Festivals . . .	T

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Stone, J.,	How to Teach Primary Number .	T
-----.,	The Teaching of Arithmetic .	T
Stone, J. C.,	How We Subtract . . .	T
Sumner, S. C.,	Supervised Study in Mathematics and Science . . .	T
Terry, P. W.,	How Numerals are Read . .	T, C
Thorndike, E. L.,	New Methods in Arithmetic .	T
-----.,	The Psychology of Arithmetic .	T
Tibbels, A.,	Circus Comes to School . .	T
U. S. Dept. of Commerce	Stories of American Industry .	T
Wheat, H. G.,	The Psychology and Teaching of Arithmetic . . .	T
White, W. C.,	Made in Russia . . .	T
Woodring, M. N.,	Enriched Teaching of Mathematics in the Junior and Senior High School	T
Yeldham, F. A.,	The Teaching of Arithmetic Through Four Hundred Years . . .	T

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CHAPTER IV

MASTER LIST ARRANGED BY TITLE

Perhaps some teachers and students are more familiar with the titles of books than with the names of the authors. Therefore, to facilitate research, the master list has been compiled by title.

ABC of Rhythmic Training,	E. Waterman	M
ABC of the Federal Reserve System	E. W. Kemmerer	H.S.,C
Abdue, A Story of An Egyptian Boy	W. B. Palmer	V-VII
Absurdities Due to Division by Zero	F. Cajori	H.S.
Across Seven Seas to Seven Continents	A. E. Aitchison	IV-VI
Active Citizenship	J. A. Woodburn	VI-VIII
Advertures in a Big City	C. C. Peardon	III
Adventures in Arithmetic, Book I	C. Upton	I
Adventures of X (The)	M. L. Clarke	H.S.
Age of Discovery	R. P. Coffman	IV-VI
Air Age Education Series	G. Osteyee	H.S.
Air and the Wind	H. McKay	V-VIII
Algebra, An Interesting Language	E. R. Breslich	VII-XII
Algebra in Easy Steps	E. I. Stein	IX-X
Algebra of Omar Khayyam	D. S. Kasir	H.S.,C
Algebraic Magic Squares	H. P. MacLaughlin	H.S.

THE HISTORY OF THE
CITY OF BOSTON

From the first settlement of the city to the present time, the history of the city of Boston is a history of the growth of a great city, and of the development of a great people.

1630	First settlement of the city	by the Puritans
1634	First town meeting	held in the town hall
1638	First church organized	the First Church in Boston
1643	First school established	the Boston Latin School
1647	First city council	the Boston City Council
1656	First city hall	the Boston City Hall
1670	First city library	the Boston City Library
1684	First city hospital	the Boston City Hospital
1693	First city prison	the Boston City Prison
1703	First city almshouse	the Boston City Almshouse
1711	First city workhouse	the Boston City Workhouse
1720	First city poorhouse	the Boston City Poorhouse
1730	First city orphanage	the Boston City Orphanage
1740	First city insane asylum	the Boston City Insane Asylum
1750	First city fire engine	the Boston City Fire Engine
1760	First city fire department	the Boston City Fire Department
1770	First city fire insurance company	the Boston City Fire Insurance Company
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1960	First city fire engine	the Boston City Fire Engine
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1980	First city fire insurance company	the Boston City Fire Insurance Company
1990	First city fire engine	the Boston City Fire Engine
2000	First city fire department	the Boston City Fire Department

Alice in Dozenland	W. E. Pitcher	H.S.
Alice in Numberland	B. B. Hedges	H.S.
Alice's Adventures in Wonderland	C. Dodgson	IV-VI
All Aboard for Storyland	H. Heffernan	III
All Around the Clock	L. Towsley	I-II
All Around Us	W. L. Beauchamp	P., I.
All Around Us	F. L. Michaels	I
All the Ways of Building	L. Lamprey	VI-VIII
Along the Erie Tow-Path	E.L. Meadowcroft	IV-VI
America, My Home	H. B. Clifford	IV-V
American Banking Practice	W. H. Kniffin	H.S., C.
American Boys' Book of Signs, Signals and Symbols	D. C. Beard	VII-VIII
American Boys' Engineering Book	A. R. Bond	H.S.
American Boys' Handy Book (The)	D. C. Beard	V-VIII
American Singer, Book II	J. W. Beattie	IV-VI
Amusements in Mathematics	H. E. Dudeney	H.S.
Another Here and Now Story Book	L. S. Mitchell	T
Archimedes	Sir. T. Heath	H.S., C.
Archimedes	J. W. McSpadden	VI-IX
Archimedes, A Mathematical Genius	N. P. Reid	H.S.
Aristarchus of Samos, the Ancient Copernicus	Sir T. Heath	H.S., C.
Arithmetic of Electricity	I. O'C. Sloane	H.S., C.

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Art Adventures With Discarded Materials	E. K. Perry	H
Art and Mathematics	N. A. Court	C
Art Forms in Nature	K. Blossfeldt	IX
Art of Whittling	W. L. Faurot	H
Art Stories, Book I	W. G. Whitford	II
Art Stories, Book II	W. G. Whitford	II-III
Art Stories, Book III	W. G. Whitford	III
At Your Service	L. Bemelmans	H.S.
Atom Smashers	R. F. Yates	H.S.
Atoms in Action	G. R. Harrison	H.S.
Babylonia and Assyria	L. M. Mohr	IV-VI
Back to School with Betsy	C. Haywood	S. C.
Banking: How It Serves Us	F. D. Graham	H. S., C
Basic Chess Endings	R. Fine	H. S., C
Bearings of Mathematics (The)	C. J. Keyser	H.S.
Beginnings of the American People and Nation	M. G. Kelty	V-VII
Beautiful Necessity	C. F. Bragdon	IX
Behind the Battlements	G. Linnell	VI-VIII
Behind the Show Window	J. Eaton	VI-VIII
Benefit and Burden	M. S. Kendrick	VI-VIII
Better Citizenship for Little Americans	E. W. Lawson	II
Better Living for Little Americans	E. W. Lawson	II
Bird's Eye View of Invention	A. F. Collins	VI-VIII
Black Land	G. Korson	H.S.

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Black on White	I. I. Marshak	V-VII
Blazing the Trail	T. D. Wood	VI-VII
Blue and Silver Necklace	C. C. Coblentz	IV-VI
Boarding House Geometry and the Human Element in Mathematics	S. B. Leacock	H.S.
Book of Festivals	D. G. Spicer	T
Book of Indian Crafts and Indian Lore	J. H. Salomon	P,T
Book of Puzzles (The)	A. F. Collins	H.S.,C
Book of the Stars (The)	W. T. Olcott	H.S.
Book of Woodcraft	E. T. Seton	VI-VIII
Boy Builder (The)	E. T. Hamilton	H.S.
Boy Mechanic (The), Book II	Popular Mechanics Co.	H.S.
Boys and Girls at School	M. L. White	P.P
Boys and Girls at Work and Play	M. L. White	P
Boys' Book of Astronomy	G. D. Swezey	VI-VIII
Boys' Book of Model Aero- planes (The)	F. A. Collins	H.S.
Boys' Book of Model Boats	R. F. Yates	H.S.
Boy's Book of Physics (A)	C. R. Clarke	VIII
Boys' Book of Remarkable Machinery (The)	E. Hawks	H.S.
Boys' Book of the U. S. Mails	I. Crump	VI-VIII
Boys' Home Book of Science and Construction	A. P. Morgan	VI-IX
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Brain Teasers	R. J. Rulon	C
Brain Tests	W. B. Gibson	H.S., C
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